The Sandur Manganese & Iron Ores Limited

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

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

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

Ref No: SMIORE/PLANT/ENV/MR/2026-27/042 **09/10/2026**

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 **September-2026**

Ref:
1) Addendum to Consent for Operation KSPCB Letter No. PCB/SEO/MIN/2025-26/1343, Dated 08.07.2026
2) CFO No. AW-354428 PCB ID 29470, Dated 18.06.2026

Dear Sir,

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

Kindly acknowledge receipt of the same and oblige.

Thanking you,

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 13/10/26 ಸಹಿ

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

Parvatareddy Patil
Associate Vice President- Plant

The Sandur Manganese & Iron Ores Limited Vyasanakere

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

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066
PLANT OFFICE: Metal & Ferroalloy Plant, Vyasanakere, Mariyammanahalli – 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335

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

S.Venkatesh
Asst. General Manager

Place: Hosapete
Date:08.10.2026

GLOBAL ENVIRONMENT & MINING SERVICES LLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
3rd Main Road, Basaveswara Badavane,
HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)
Ph : 08394 355369
e-mail : gems_hpt@yahoo.com
Website : www.gemsllp.in

ANNEXURE-01

GEMS-LD/TF/11/01

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Location	:	**A1-Near Existing AAQMS 01 (SMIORE School)**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3353**

RESULTS

Parameters			PM_{10} [µg/m³]	$PM_{2.5}$ [µg/m³]	SO_2 [µg/m³]	NO_2 [µg/m³]	Ozone* (O3), [µg/m³]	Ammonia (NH3) [µg/m³]
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
04.09.2026	05.09.2026	4748	55.99	13.21	9.26	9.88	0.00	<20.0
05.09.2026	06.09.2026	4784	52.25	11.27	8.52	8.59	0.00	<20.0
11.09.2026	12.09.2026	4968	50.33	11.2	8.34	11.19	0.00	<20.0
12.09.2026	13.09.2026	4988	54.13	13.26	9.47	10.54	0.00	<20.0
18.09.2026	19.09.2026	5140	50.30	10.12	9.76	10.42	0.00	<20.0
19.09.2026	20.09.2026	5170	51.16	10.3	8.66	9.71	0.00	<20.0
25.09.2026	26.09.2026	5378	51.21	11.28	9.26	10.3	0.00	<20.0
26.09.2026	27.09.2026	5453	50.15	12.7	8.28	9.08	0.00	<20.0
Average			**51.94**	**11.66**	**8.94**	**9.96**	**0.00**	**<20.0**
Limits for Industrial, Residential, Rural, and other Areas			**100**	**60**	**80**	**80**	**180**	**400**
			24 hrs.	**24 hrs.**	**24 hrs.**	**24 hrs.**	**1hr***	**24 hrs.**

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

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

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

GLOBAL ENVIRONMENT& MINING SERVICES LLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
3rd Main Road, Basaveswara Badavane,
HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)
Ph : 08394 355369
e-mail : gems_hpt@yahoo.com
Website : www.gemsllp.in

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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Location	:	**A1-Near Existing AAQMS 01 (SMIORE School)**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3353**

Parameters			Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Benzene (C_6H_6), µg/m³
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
04.09.2026	05.09.2026	4748	<0.01	<0.1	<0.5	<0.5	0.07	<1.0
05.09.2026	06.09.2026	4784	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
11.09.2026	12.09.2026	4968	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
12.09.2026	13.09.2026	4988	<0.01	<0.1	<0.5	<0.5	0.07	<1.0
18.09.2026	19.09.2026	5140	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
19.09.2026	20.09.2026	5170	<0.01	<0.1	<0.5	<0.5	0.04	<1.0
25.09.2026	26.09.2026	5378	<0.01	<0.1	<0.5	<0.5	0.03	<1.0
26.09.2026	27.09.2026	5453	<0.01	<0.1	<0.5	<0.5	0.06	<1.0
		Average	<0.01	<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 were monitored for a period of 1 hr.

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

End of the Report

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

HOSAPETE

SMIORE SEPTEMBER PHOTOS









SMIORE SEPTEMBER PHOTOS









GLOBAL ENVIRONMENT & MINING SERVICES LLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
3rd Main Road, Basaveswara Badavane,
HOSAPETE – 583201, Dist., Vijayanagara (Karnataka)
Ph : 08394 355369
e-mail : gems_hpt@yahoo.com
Website : www.gemsllp.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), 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	:	**SEPTEMBER -2026**
Location	:	**A2 - Existing Water Reservoir (Near WTP Plant)**
Duration of Monitoring	:	24 Hour
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3354**

RESULTS

Parameters			PM_{10} [µg/m³]	$PM_{2.5}$ [µg/m³]	SO_2 [µg/m³]	NO_2 [µg/m³]	Ozone* (O3), [µg/m³]	Ammonia (NH3) [µg/m³]
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**
04.09.2026	05.09.2026	4749	45.86	13.31	9.62	9.39	2.56	<20.0
05.09.2026	06.09.2026	4785	46.32	12.56	9.54	10.39	1.23	<20.0
11.09.2026	12.09.2026	4969	51.47	9.25	8.53	9.05	0	<20.0
12.09.2026	13.09.2026	4989	50.52	11.66	10.09	8.25	2.48	<20.0
18.09.2026	19.09.2026	5141	50.26	12.81	8.12	11.17	1.69	<20.0
19.09.2026	20.09.2026	5171	51.34	13.6	9.6	9.36	5.26	<20.0
25.09.2026	26.09.2026	5379	50.26	11.05	8.52	10.39	6.22	<20.0
26.09.2026	27.09.2026	5454	51.19	11.3	8.26	8.61	3.56	<20.0
Average			**49.65**	**11.94**	**9.03**	**9.57**	**2.87**	9.39
Limits for Industrial, Residential, Rural, and other Areas			**100**	**60**	**80**	**80**	**180**	**400**
			24 hrs.	**24 hrs.**	**24 hrs.**	**24 hrs.**	**1hr***	**24 hrs.**

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

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

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

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

GLOBAL ENVIRONMENT& MINING SERVICESLLP
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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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Location	:	**A2 - Existing Water Reservoir (Near WTP Plant)**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3354**

Parameters			Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Benzene (C_6H_6), µg/ m³
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
04.09.2026	05.09.2026	4749	<0.01	<0.1	<0.5	<0.5	0.11	<1.0
05.09.2026	06.09.2026	4785	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
11.09.2026	12.09.2026	4969	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
12.09.2026	13.09.2026	4989	<0.01	<0.1	<0.5	<0.5	0.1	<1.0
18.09.2026	19.09.2026	5141	0.13	<0.1	<0.5	<0.5	0.12	<1.0
19.09.2026	20.09.2026	5171	0.15	<0.1	<0.5	<0.5	0.10	<1.0
25.09.2026	26.09.2026	5379	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
26.09.2026	27.09.2026	5454	<0.01	<0.1	<0.5	<0.5	0.11	<1.0
Average			0.14	<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 were monitored for a period of 1 hr.

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

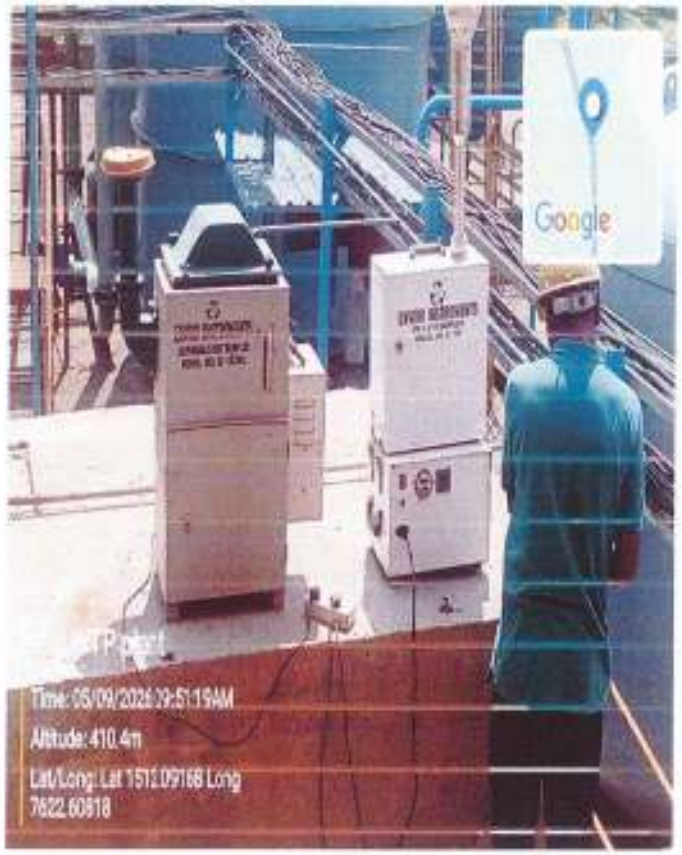
****End of the Report****

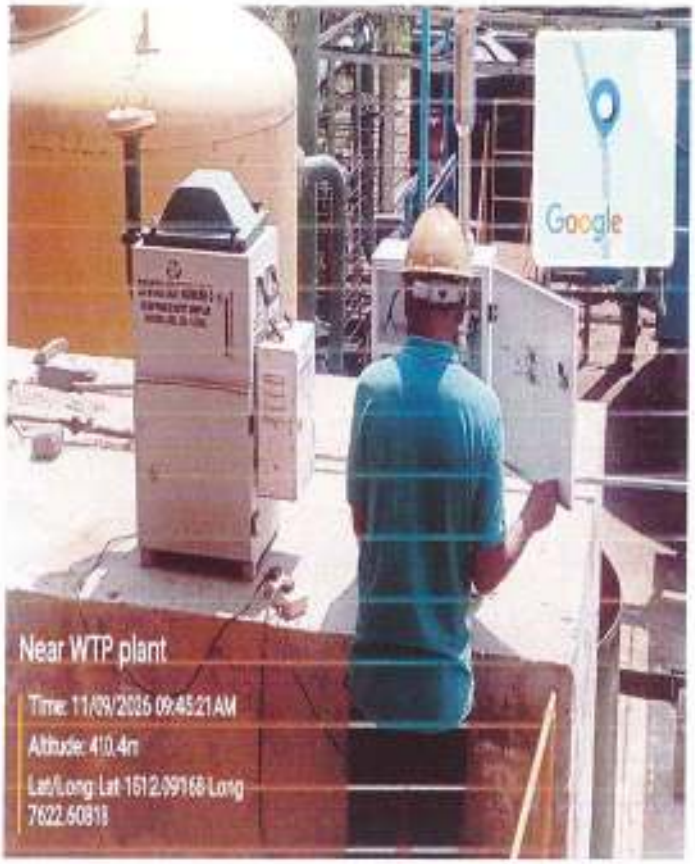
Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

SMIORE SEPTEMBER PHOTOS









SMIORE SEPTEMBER PHOTOS









GLOBAL ENVIRONMENT & MINING SERVICES LLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
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Ph : 08394 355369
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Website : www.gemsllp.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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Location	:	**A3-Galemmanagudi Village**
Duration of Monitoring	:	24 Hour
Report Issue Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3355**

RESULTS

Parameters			PM_{10} [µg/m³]	$PM_{2.5}$ [µg/m³]	SO_2 [µg/m³]	NO_2 [µg/m³]	Ozone* (O3), [µg/m³]	Ammonia (NH3) [µg/m³]
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
04.09.2026	05.09.2026	4750	49.75	11.25	10.52	9.64	0.0	<20.0
05.09.2026	06.09.2026	4786	49.25	9.45	9.68	8.87	0.00	<20.0
11.09.2026	12.09.2026	4970	48.89	12.2	10.26	10.56	0.00	<20.0
12.09.2026	13.09.2026	4990	50.06	12.66	10.26	9.52	0.00	<20.0
18.09.2026	19.09.2026	5142	50.95	11.45	11.13	8.81	0.00	<20.0
19.09.2026	20.09.2026	5172	49.71	10.85	8.61	10.1	0.00	<20.0
25.09.2026	26.09.2026	5380	46.27	10.25	8.38	11.5	0.00	<20.0
26.09.2026	27.09.2026	5455	47.25	9.45	10.58	10.64	0.00	<20.0
Average			49.01	10.94	9.92	9.95	0.00	<20.0
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr*	24 hrs.

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

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

End of the Report

Lakshmi B S
Analysed By
Lakshmi B S
Chemist

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

GLOBAL ENVIRONMENT& MINING SERVICESLLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
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Ph : 08394 355369
e-mail : gems_hpt@yahoo.com
Website : www.gemsllp.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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference : Workorder No:4200013039 Dated:22.07.2026
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 : **SEPTEMBER -2026**
Location : **A3-Galemmanagudi Village**
Report Issued Date : **08.10.2026**
Report Number : **GEMS/SMIORE/AAQ/2026-27/3355**

Parameters			Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Benzene (C_6H_6), µg/ m³
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
04.09.2026	05.09.2026	4750	<0.01	<0.1	<0.5	<0.5	0.16	<1.0
05.09.2026	06.09.2026	4786	<0.01	<0.1	<0.5	<0.5	0.15	<1.0
11.09.2026	12.09.2026	4970	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
12.09.2026	13.09.2026	4990	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
18.09.2026	19.09.2026	5142	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
19.09.2026	20.09.2026	5172	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
25.09.2026	26.09.2026	5380	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
26.09.2026	27.09.2026	5455	<0.01	<0.1	<0.5	<0.5	0.14	<1.0
		Average	<0.01	<0.1	<0.5	<0.5	0.13	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0 24 hrs.	20 Annual	6 Annual	1 Annual	4 1 hr.	5 Annual

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

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

**End of the Report*

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

SMIORE SEPTEMBER PHOTOS



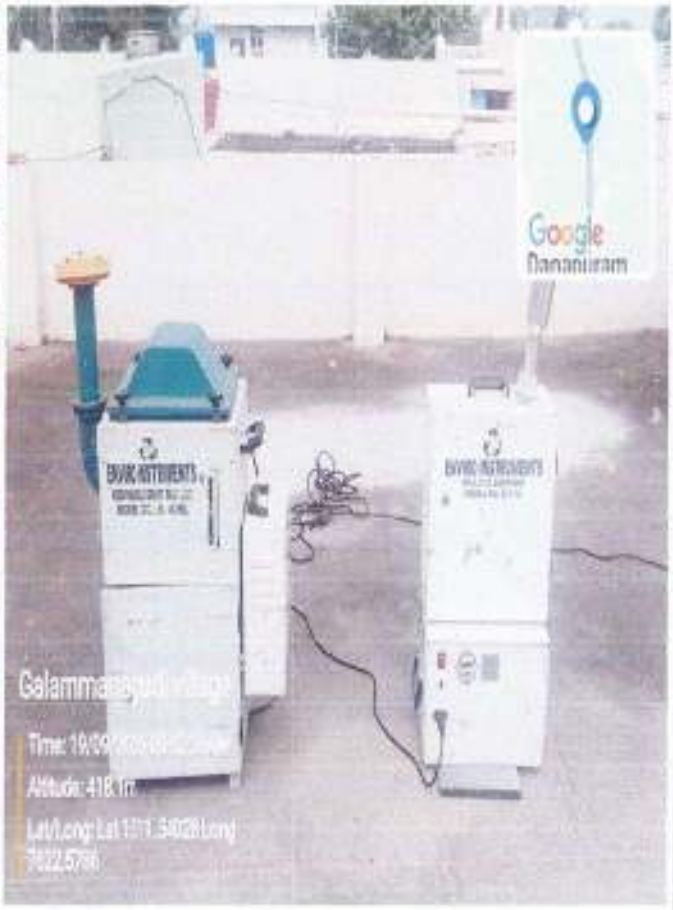






SMIORE SEPTEMBER PHOTOS









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

ANALYSIS REPORT OF AMBIENT AIR QUALITY DATA

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
Customer Reference	:	Work order No. 4200011817 Dated: 20.08.2025
Sample collected by	:	Global Environment & Mining Services LLP
Discipline	:	Chemical
Group	:	Atmospheric Pollution
Sample Type	:	Ambient Air Quality Monitoring
Particulars of Sample Collected	:	Respirable Dust Sampler, FPS Sampler
Month	:	**SEPTEMBER -2026**
Location	:	**A4 - Near Plant Railway Siding**
Duration of Monitoring	:	24 Hour
Report Issue Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3356**

RESULTS

Parameters			PM_{10} [µg/m³]	$PM_{2.5}$ [µg/m³]	SO_2 [µg/m³]	NO_2 [µg/m³]	Ozone* (O3), [µg/m³]	Ammonia (NH3) [µg/m³]
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
04.09.2026	05.09.2026	4751	49.56	12.11	9.25	9.25	5.11	<20.0
05.09.2026	06.09.2026	4787	51.19	10.55	9.83	8.46	2.54	<20.0
11.09.2026	12.09.2026	4971	52.56	11.19	10.1	8.37	3.25	<20.0
12.09.2026	13.09.2026	4991	52.56	11.34	10.56	9.26	1.23	<20.0
18.09.2026	19.09.2026	5143	51.26	12.63	12.16	11.4	1.02	<20.0
19.09.2026	20.09.2026	5173	50.26	12.56	10.57	8.39	3.12	<20.0
25.09.2026	26.09.2026	5381	50.61	12.56	9.84	9.56	2.25	<20.0
26.09.2026	27.09.2026	5456	50.25	9.28	9.25	9.58	1.56	<20.0
Average			51.03	11.52	10.07	9.14	2.51	9.25
Limits for Industrial, Residential, Rural, and other Areas			100	60	80	80	180	400
			24 hrs.	24 hrs.	24 hrs.	24 hrs.	1hr*	24 hrs.

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

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

End of the Report

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

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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:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Location	:	**A4 - Near Plant Railway Siding**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/AAQ/2026-27/3356**

Parameters			Lead (Pb), µg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m³	Benzo(a) Pyrene (BaP), ng/m³	Carbon Monoxide* (CO), mg/m³	Benzene (C_6H_6), µg/ m³
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
04.09.2026	05.09.2026	4751	<0.01	<0.1	<0.5	<0.5	0.11	<1.0
05.09.2026	06.09.2026	4787	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
11.09.2026	12.09.2026	4971	<0.01	<0.1	<0.5	<0.5	0.10	<1.0
12.09.2026	13.09.2026	4991	<0.01	<0.1	<0.5	<0.5	0.11	<1.0
18.09.2026	19.09.2026	5143	<0.01	<0.1	<0.5	<0.5	0.12	<1.0
19.09.2026	20.09.2026	5173	<0.01	<0.1	<0.5	<0.5	0.09	<1.0
25.09.2026	26.09.2026	5381	<0.01	<0.1	<0.5	<0.5	0.07	<1.0
26.09.2026	27.09.2026	5456	<0.01	<0.1	<0.5	<0.5	0.08	<1.0
Average			<0.01	<0.1	<0.5	<0.5	0.10	<1.0
Limits for Industrial, Residential, Rural, and other Areas			1.0	20	6	1	4	5
			24 hrs.	Annual	Annual	Annual	1 hr.	Annual

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

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

**End of the Report*

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

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

SMIORE SEPTEMBER PHOTOS









SMIORE SEPTEMBER PHOTOS









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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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to Furnace - 3**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	**04.09.2026**
12	Date of Sample Received	:	05.09.2026
13	Sample Code	:	**4754**
14	Date of Sample Analysis	:	06.09.2026
15	Date of Sample Analysis completion	:	06.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3358**
17	Report Issued Date	:	**08.10.2026**

Stack Details

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

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	79	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	16.05	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	283668	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	238402	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	112.40	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm^3	26	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm^3	18	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.58	-
10	Oxygen (O_2)	GEMS/SOP/70	%	19.28	-

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

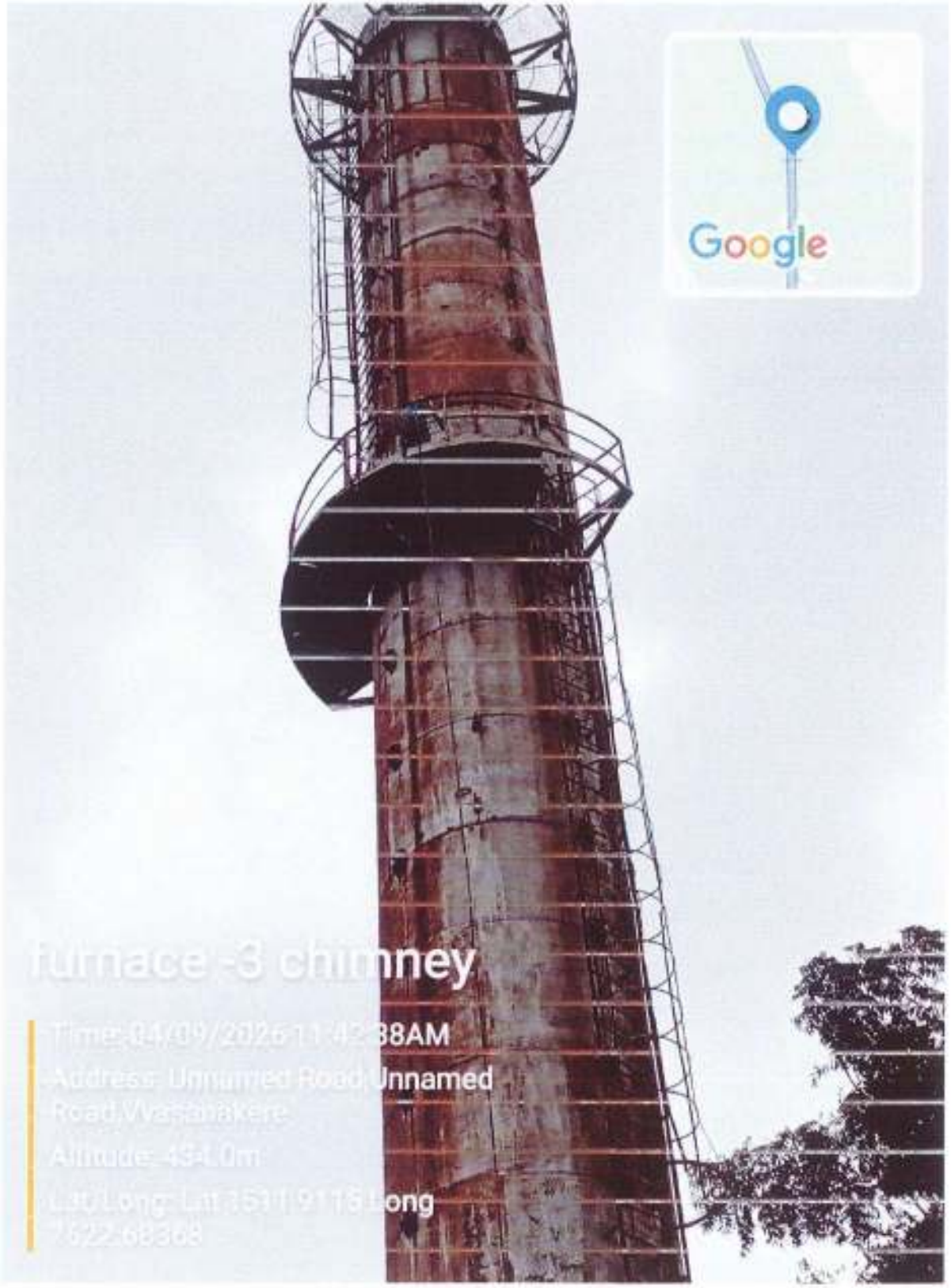
****End of the Report****

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

M/s GEMS Environment and Mining Services HOSAPETE


Google
furnace -3 chimney
Time: 04/09/2026 11:49:38AM
Address: Unnamed Road, Unnamed Road,Vvarabakere
Altitude: 434.0m
Lat Long: Lat 1.531191 15 Long
0722 68368

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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:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to Furnace - 5**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	**04.09.2026**
12	Date of Sample Received	:	05.09.2026
13	Sample Code	:	**4755**
14	Date of Sample Analysis	:	06.09.2026
15	Date of Sample Analysis completion	:	06.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3359**
17	Report Issued Date	:	**08.10.2026**

Stack Details

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

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	95	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	15.97	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	406439	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	326741	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	96.84	150
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm^3	29	-
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm^3	17	-
9	Carbon Monoxide	GEMS/SOP/69	%	0.44	-
10	Oxygen (O_2)	GEMS/SOP/70	%	19.32	-

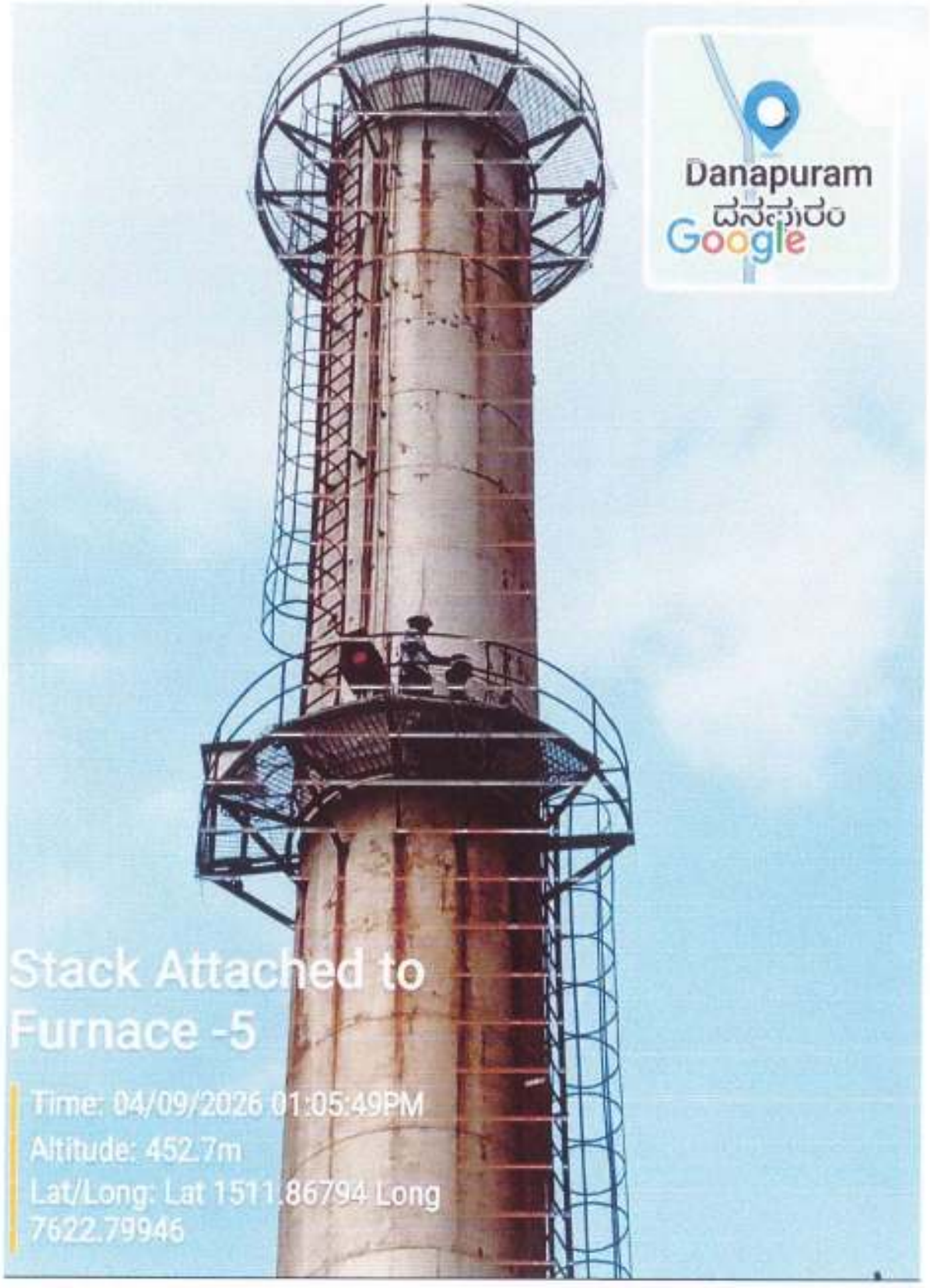
Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:** The Measured Values are within the limits.

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager


Danapuram
ದನಪುರಂ
Google
Stack Attached to Furnace -5
Time: 04/09/2026 01:05:49PM
Altitude: 452.7m
Lat/Long: Lat 1511.86794 Long 7622.79946

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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:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to WHRB-01**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	**05.09.2026**
12	Date of Sample Received	:	07.09.2026
13	Sample Code	:	**4791**
14	Date of Sample Analysis	:	08.09.2026
15	Date of Sample Analysis completion	:	08.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3370**
17	Report Issued Date	:	**08.10.2026**

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	32	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	159	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.85	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	469714	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	322076	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	37.53	50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm^3	414	800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm^3	235	500
9	Carbon Monoxide	GEMS/SOP/69	%	0.52	Max1%
10	Oxygen (O_2)	GEMS/SOP/70	%	7.85	-

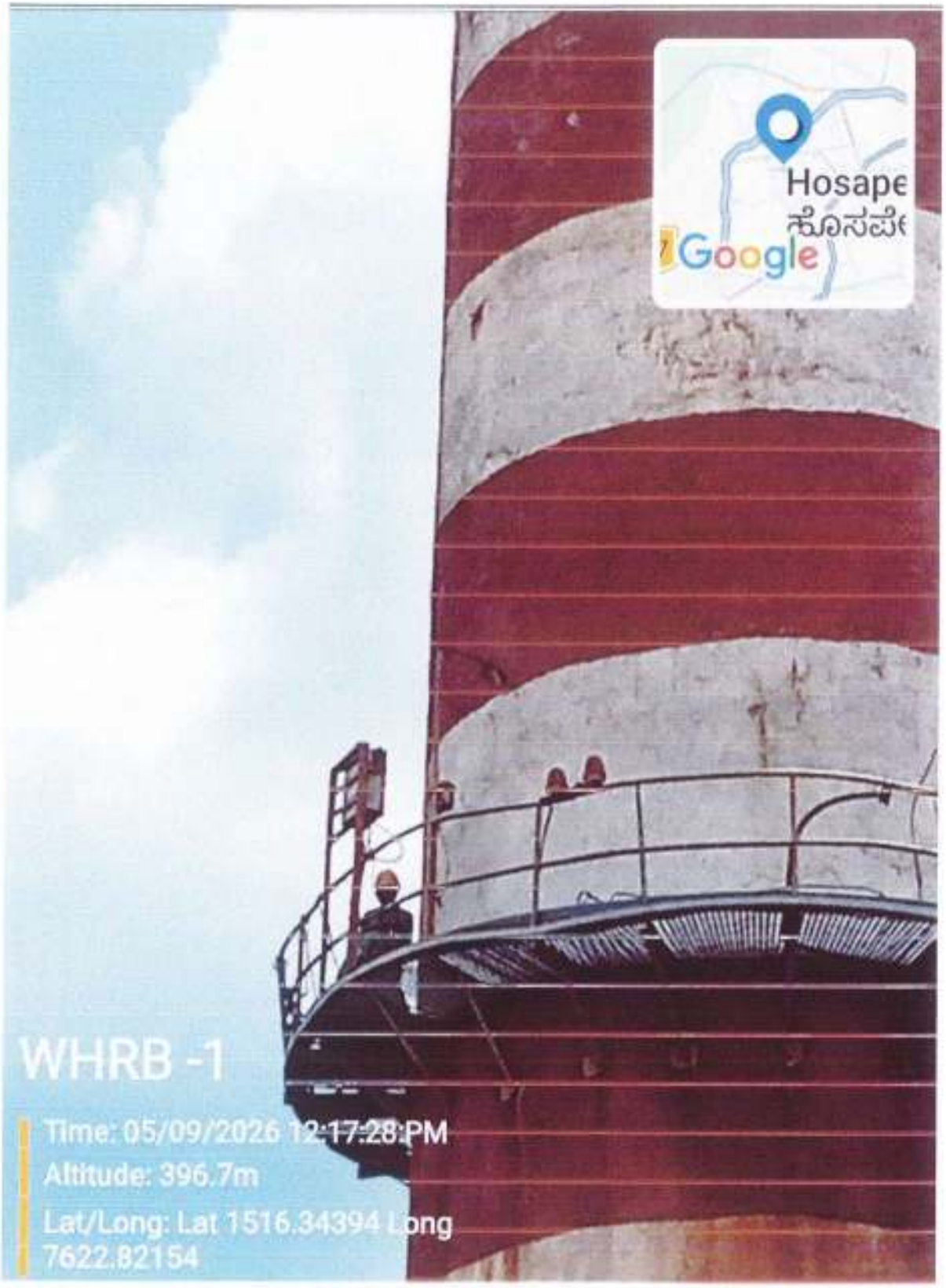
Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:** The Measured Values are within the limits.

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

Lakshmi B S
Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

M/s. GLOBAL Environment and Mining Services HOSAPETE


Hosape
ಹೊಸಪೇ
Google
WHRB -1
Time: 05/09/2026 12:17:28 PM
Altitude: 396.7m
Lat/Long: Lat 1516.34394 Long
7622.82154

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Website : www.gemsllp.in

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

Analysis Report of Stack Emission

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to WHRB-02**
10	Month of Sampling	:	**SEPTEMBER -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	:	08.10.2026

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	Shutdown	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C		-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec		-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr		-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr		-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3		50
7	Sulphur Dioxide	IS: 11255 (Part 2): (RA 2014)	mg/Nm^3		800
8	Nitrogen Dioxide	IS:11255 (Part7): 2005 (RA 2017)	mg/Nm^3		500
9	Carbon Monoxide	GEMS/SOP/69	%		Max1%
10	Oxygen (O_2)	GEMS/SOP/70	%		-

Note: NS- Not Specified, RA: Reaffirmed, **INFERENCE:**

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

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Website : www.gemsllp.in

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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to Coal Crushing**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	11.09.2026
12	Date of Sample Received	:	12.09.2026
13	Sample Code	:	4972
14	Date of Sample Analysis	:	13.09.2026
15	Date of Sample Analysis completion	:	13.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3444**
17	Report Issued Date	:	**08.10.2026**

Stack Details

1	Fuel Used	-
2	Stack Height (m)	15
3	Stack Diameter (m)	0.7
4.	Cross Sectional Area (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	35	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.81	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	8050	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	7732	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	31.55	50

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

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

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

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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to Coke Cutter**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	11.09.2026
12	Date of Sample Received	:	12.09.2026
13	Sample Code	:	4973
14	Date of Sample Analysis	:	13.09.2026
15	Date of Sample Analysis completion	:	13.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3445**
17	Report Issued Date	:	**08.10.2026**

Stack Details

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

Emission Details

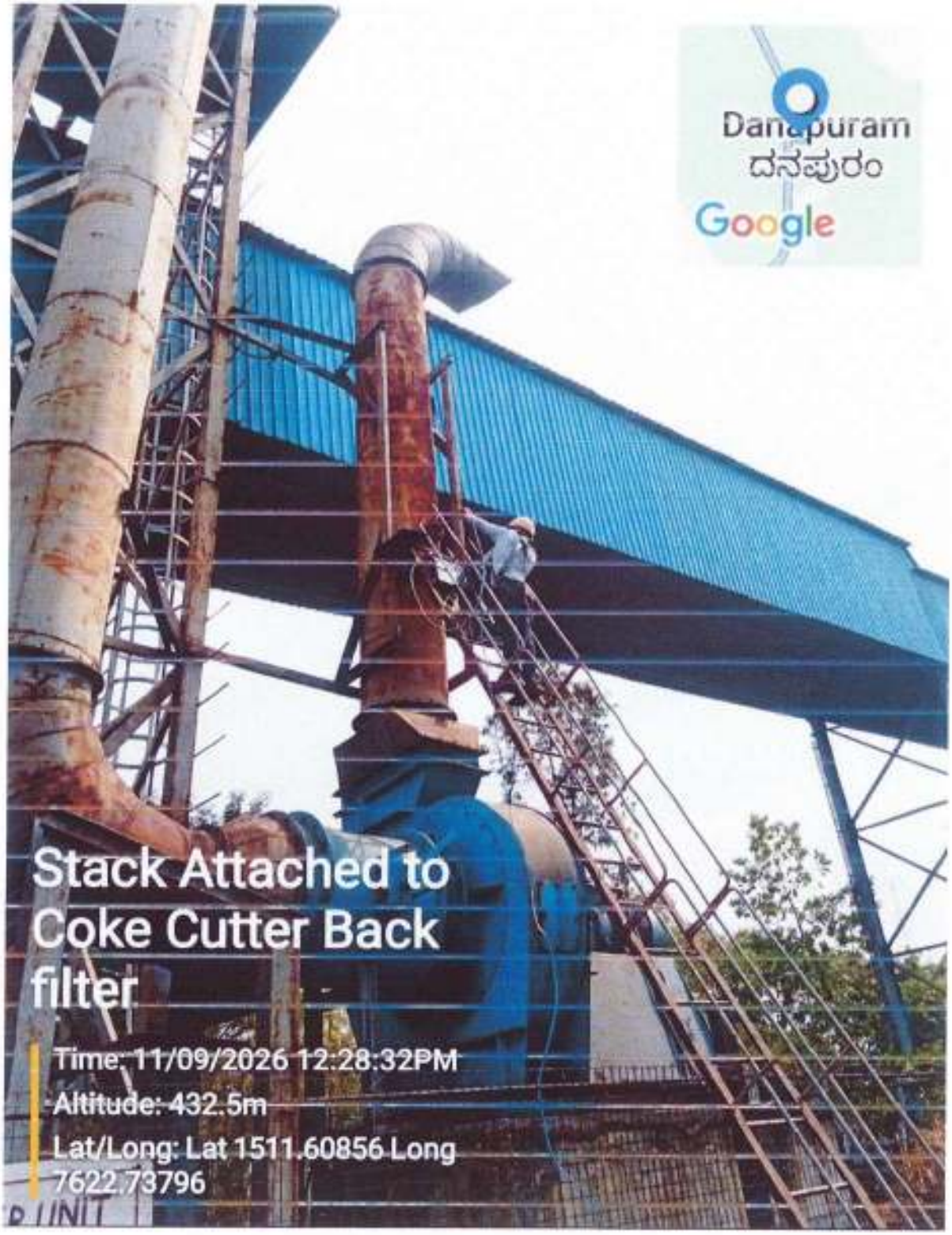
Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	31	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.49	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	7607	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	7330	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	39.89	50

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

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

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager


Danapuram
ದನಪುರಂ
Google
Stack Attached to Coke Cutter Back filter
Time: 11/09/2026 12:28:32PM
Altitude: 432.5m
Lat/Long: Lat 1511.60856 Long 7622.73796

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NABET

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:4200013039 Dated:22.07.2026
3	Sample collected by	:	Global Environment & Mining Services LLP, Hosapete
4	Particulars of sample collected	:	Stack Kit (Greentech Instruments) Sl. No: Stack Monitoring Kit/ **114-DTG-2016**
5	Instrument Details	:	Calibration Date: 25.04.2026 Calibration Due Date: 24.04.2027
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	Stack Monitoring
9	Sampling Location	:	**Stack Attached to Coke Screening & Store**
10	Month of Sampling	:	**SEPTEMBER -2026**
11	Date of Monitoring	:	11.09.2026
12	Date of Sample Received	:	12.09.2026
13	Sample Code	:	4974
14	Date of Sample Analysis	:	13.09.2026
15	Date of Sample Analysis completion	:	14.09.2026
16	Report Number	:	**GEMS/SMIORE/STACK/2026-27/3446**
17	Report Issued Date	:	**08.10.2026**

Stack Details

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

Emission Details

Sl. No.	Parameters	Method	Unit	Result	Permissible Limit
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	38	-
3	Velocity of Fuel Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	5.70	-
4	Gas flow rate at Stack Condition	IS-11255(Part 02) (RA 2014)	m^3/hr	7898	-
5	Gas flow rate at NTP	IS-11255(Part 02) (RA 2014)	Nm^3/hr	7512	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	mg/Nm^3	41.20	50

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

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

Lakshmi B.S

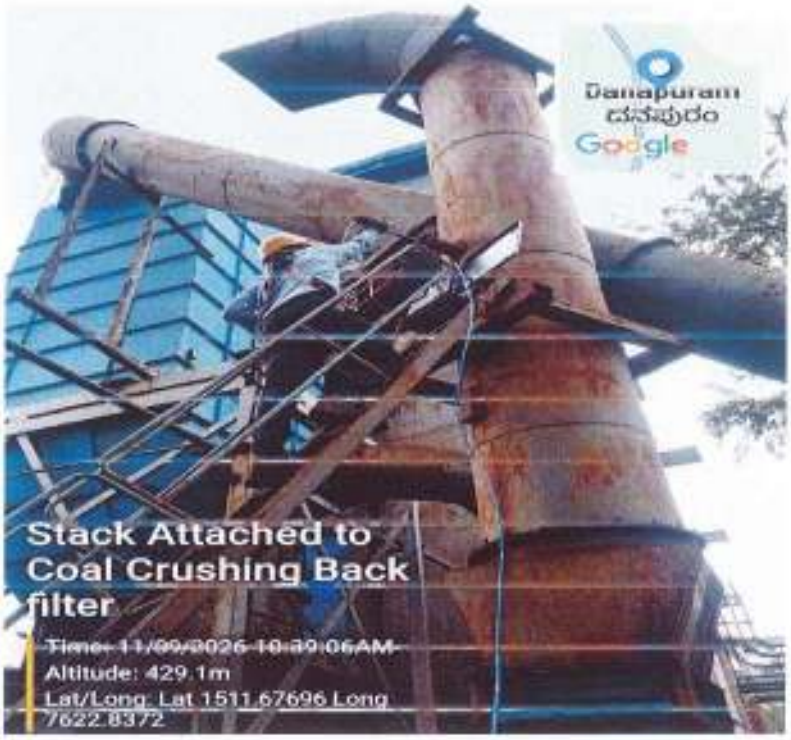
Analysed by
Lakshmi B S
Chemist

S.Venkatesh

Verified by
S.Venkatesh
Asst. General Manager

M/S Global Environment and Mining Services HOSAPETE

SMIORE SEPTEMBER PHOTOS





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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:4200013039 Dated:22.07.2026
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	:	**SEPTEMBER -2026**
Duration of the Monitoring	:	24 Hrs.
Report Issue Date	:	**08.10.2026**
Method Adopted	:	IS 9989-1981 Reaffirmed 2014
Report No	:	**GEMS/SMIORE/NOISE/2026-27/3360**

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)	04.09.2026	54.1	61.1	52.6	75	41.2	48.8	44.8	70
N2	Near Water Reservoir (WTP Plant)	05.09.2026	51.6	64.4	56.2		48.8	58.8	52.6	
	Residential Area									
N3	Galemmanagudi	11.09.2026	44.6	57.8	51.4	55	35.2	45.8	40.7	45
N4	Vyasanakere Village	18.09.2026	43.7	55.3	49.8		33.7	44.4	39.6	
N5	Hanumana Halli	25.09.2026	42.5	51.6	48.4		33.2	44.7	39.1	

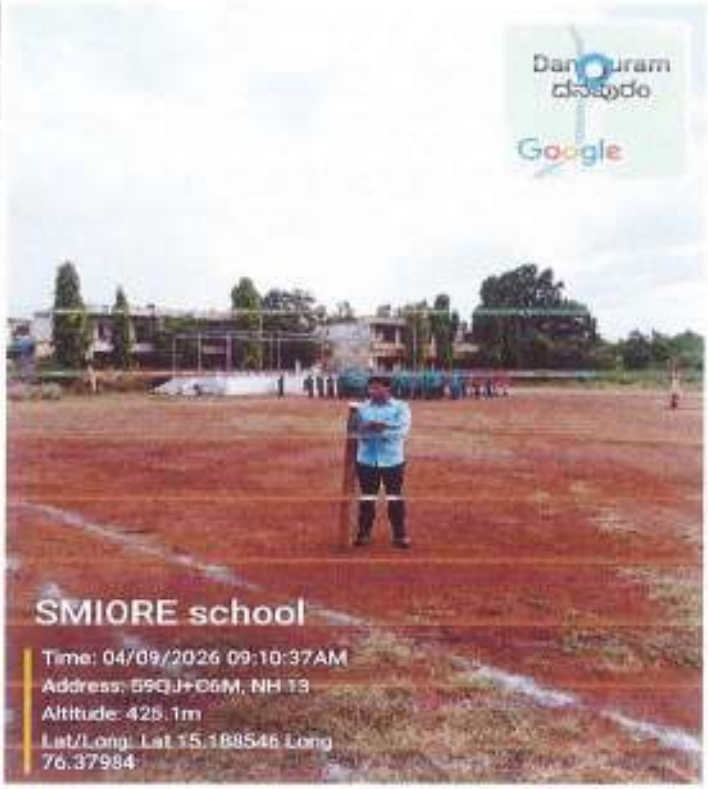
INFERENCE	**As per CPCB Standards,** **Report Status: - Measured Values for the above parameters are within the limit.**

****End of the Report***

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

Verified By
S.Venkatesh
Asst. General Manager

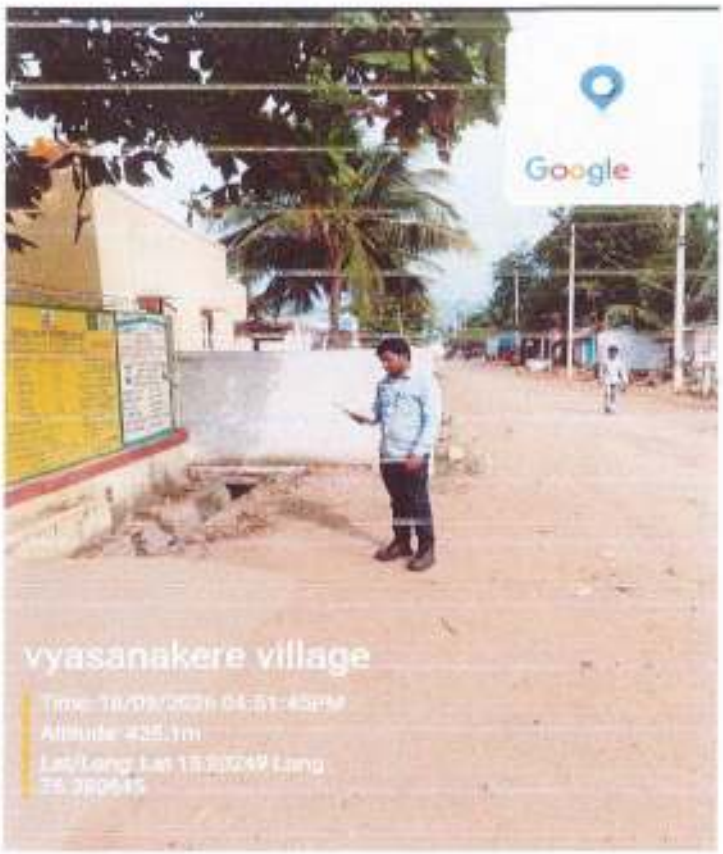
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SMIORE SEPTEMBER PHOTOS





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

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**4988**
10	Date of Sampling	:	12.09.2026
11	Sample Received	:	12.09.2026
12	Date of Analysis	:	14.09.2026
13	Date of Analysis Completion	:	18.09.2026
14	Report Issue Date	:	**08.10.2026**
15	Report Number	:	**GEMS/ SMIORE /STP/2026-27/3448**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.86	6.5 to 9.0
2.	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	8.3	<20
3.	Biochemical Oxygen Demand as BOD (3 days at 27°C)	IS 3025 PART 44: 2023	mg/L	7.2	<10
4.	Chemical Oxygen Demand as COD	APHA 24th Edition 5220 B: 2023	mg/L	23.86	<50

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

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

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

GLOBAL Environment and Mining Services HOSAPETE

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

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No:4200013039 Dated:22.07.2026
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	:	**4988**
10	Date of Sampling	:	12.09.2026
11	Sample Received	:	12.09.2026
12	Date of Analysis	:	14.09.2026
13	Date of Analysis Completion	:	18.09.2026
14.	Report Issue Date	:	**08.10.2026**
15	Report Number	:	**GEMS/ SMIORE /STP/2026-27/3448**

Sl. No.	Parameters	Protocol	Unit	Results	As per KSPCB Std
5	Ammonical nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	0.23	<5
6	Total Nitrogen as N	IS:3025 (part 34)-1988, RA-2023	mg/L	2.26	<10
7	Fecal coliform	APHA 24th Edition 9222 B :2023	MPN/ 100ml	35	Less than 100

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

Analysed By
Lakshmi B S
Chemist

Verified By
S.Venkatesh
Asst. General Manager

SMIORE SEPTEMBER PHOTOS



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

ANALYSIS REPORT OF FUGITIVEEMISSIONS 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	:	Fugitive Emissions
Particulars of Sample Collected	:	High Volume Samplers
Month	:	**SEPTEMBER-2026**
Duration of the Monitoring	:	8 Hrs.
Date of Analysis		**08.09.2026**
Date of Analysis Completion	:	**08.09.2026**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/2026-27/3357**

Sl. No.	Location / Plant	Sample Code	Date of Sampling	Date of Sample Received	Parameters
					SPM ($\mu g/m^3$)
Reference Test Method					IS 5182 (Part 4): 1999 RA 2014
1.	Finished goods yard in between F3 & F5	4752	04.09.2026	05.09.2026	1115.33
2.	Raw Material Storage Area	4753	04.09.2026	05.09.2026	538.56
Permissible Limits for Fugitive Emissions as per G.S.R. 277E. Dated on 31.03.2012					3000
					8hrs

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

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

WORKZONE NOISE LEVEL MONITORING REPORT

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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	:	**SEPTEMBER-2026**
Duration of the Monitoring	:	10 Minutes
Report Issue Date	:	**08.10.2026**
Method Adopted	:	IS 9989-1981 Reaffirmed 2014
Report No	:	**GEMS/NOISE/2026-27/3474**

SL No	Location	Date of Monitoring	Noise Level dB (A)			
			Day Time			Standard
			Min	Max	Leq	
Industrial Area						
N1	ARC Furnance-3 Area	18.09.2026	66.2	72.0	71.01	75
N2	ARC Furnace-5 Area	18.09.2026	68.6	71.4	71.2	
N3	Near WHRB -1	18.09.2026	58.1	62.4	61.86	
N4	Near WHRB-2	18.09.2026	63.2	74.1	68.2	
N5	Near Power Plant Turbine	18.09.2026	61.8	71.4	64.3	

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

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

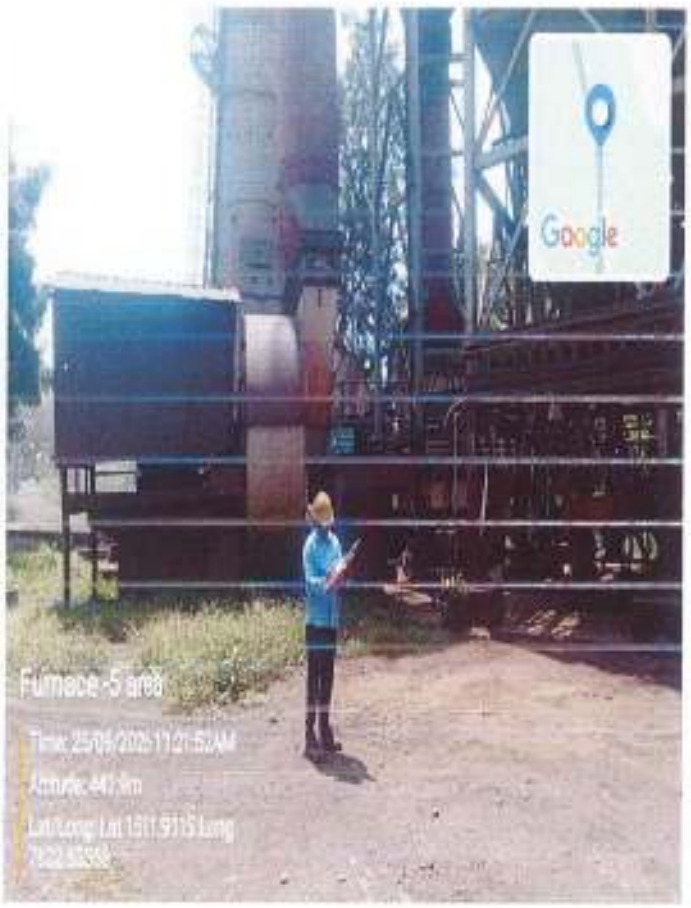
Verified by
Venkatesh S
Asst. General Manager

NOISE: (AMBIENT STANDARDS)

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

SMIORE SEPTEMBER PHOTOS









SMIORE SEPTEMBER PHOTOS



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

Analysis Report of DG Stack Emission

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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)
5	Instrument Details	:	Sl. No: Stack Monitoring Kit/ **114-DTG-2016** Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	DG Stack Monitoring
9	Sampling Location	:	**DG Set 750 KVA (Coke Oven)**
10	Month of Sampling	:	**SEPTEMBER-2026**
11	Date of Monitoring	:	18.09.2026
12	Date of Sample Received	:	18.09.2026
13	Sample Code	:	5148
14	Date of Sample Analysis	:	19.09.2026
15	Date of Sample Analysis completion	:	19.09.2026
16	Report Issued Date	:	**04.10.2026**
17	Report Number	:	**GEMS/DGSTACK/2026-27/3475**

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result	*G.S.R. 771(E)dated 11th Dec. 2013*
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	30	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	153	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.24	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985(RA 2014)	m3/hr.	1842	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm3/hr.	1201	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.0245	<0.2
7	Sulphur Dioxide (SO2)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm3	27	NS
8	Nitrogen Dioxide (NO2) +HC	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	179	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.32	<3.5
10	O2(%)	GEMS/SOP/70	%	16.85	NS

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

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

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

M/S. Global Environment and Mining Services HOSAPETE

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

Analysis Report of DG Stack Emission

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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)
5	Instrument Details	:	Sl. No: Stack Monitoring Kit/ **114-DTG-2016** Calibration Date: 25.04.2025 Calibration Due Date: 24.04.2026
6	Discipline	:	Chemical
7	Group	:	Atmospheric Pollution
8	Sample Type	:	DG Stack Monitoring
9	Sampling Location	:	**DG Set 250 KVA (VHT-2)**
10	Month of Sampling	:	**SEPTEMBER-2026**
11	Date of Monitoring	:	18.09.2026
12	Date of Sample Received	:	18.09.2026
13	Sample Code	:	5149
14	Date of Sample Analysis	:	19.09.2026
15	Date of Sample Analysis completion	:	19.09.2026
16	Report Issued Date	:	**08.10.2026**
17	Report Number	:	**GEMS/DGSTACK/2026-27/3476**

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result	*G.S.R. 771(E)dated 11th Dec, 2013*
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	32	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	116	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.49	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985(RA 2014)	m3/hr.	734	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm3/hr.	561	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.0.14	<0.2
7	Sulphur Dioxide (SO2)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm3	21	NS
8	Nitrogen Dioxide (NO2)	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	0.52	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.23	<3.5
10	O2(%)	GEMS/SOP/70	%	16.89	NS

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

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

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

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

Analysis Report of DG Stack Emission

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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	:	DG Stack Monitoring
9	Sampling Location	:	**DG Set 250 KVA (New Bag House)**
10	Month of Sampling	:	**SEPTEMBER-2026**
11	Date of Monitoring	:	18.09.2026
12	Date of Sample Received	:	18.09.2026
13	Sample Code	:	5150
14	Date of Sample Analysis	:	19.09.2026
15	Date of Sample Analysis completion	:	19.09.2026
16	Report Issued Date	:	**08.10.2026**
17	Report Number	:	**GEMS/DGSTACK/2026-27/3477**

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result	*G.S.R. 771(E)dated 11th Dec, 2013*
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	34	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	98	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	6.72	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985(RA 2014)	m3/hr.	760	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm3/hr.	609	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.012	<0.2
7	Sulphur Dioxide (SO2)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm3	22	NS
8	Nitrogen Dioxide (NO2)	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	0.60	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.39	<3.5
10	O2(%)	GEMS/SOP/70	%	18.36	NS

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

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

M/s GLOBAL Environment and Mining Services HOSAPETE

SMIORE SEPTEMBER PHOTOS





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

Analysis Report of DG Stack Emission

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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	:	DG Stack Monitoring
9	Sampling Location	:	**DG Set 625 KVA (Power Plant)**
10	Month of Sampling	:	**SEPTEMBER-2026**
11	Date of Monitoring	:	18.09.2026
12	Date of Sample Received	:	18.09.2026
13	Sample Code	:	5151
14	Date of Sample Analysis	:	19.09.2026
15	Date of Sample Analysis completion	:	19.09.2026
16	Report Issued Date	:	**08.10.2026**
17	Report Number	:	**GEMS/DGSTACK/2026-27/3478**

Stack Details

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

Sl. No.	Parameters	Method	Unit	Result	*G.S.R. 771(E)dated 11th Dec, 2013*
1	Ambient Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	35	-
2	Stack Temperature	IS: 11255 (Part 1) - 1985 (RA 2014)	°C	179	-
3	Velocity of Flue Gas	IS: 11255 (Part 3) - 1985 (RA 2014)	m/sec	7.51	-
4	Gas flow rate at Stack Condition	IS: 11255 (Part 3) - 1985(RA 2014)	m3/hr.	1911	-
5	Gas flow rate at NTP	IS-11255(Part 03)1985(RA 2014)	Nm3/hr.	1256	-
6	Particulate Matter	IS: 11255 (Part 1) - 1985 (RA 2014)	g/Kw-hr	0.39	<0.2
7	Sulphur Dioxide (SO2)	IS: 11255 (Part 2): 1985 (RA 2014)	mg/Nm3	23	NS
8	Nitrogen Dioxide (NO2)	IS:11255 (Part7): 2005(RA 2017)	g/Kw-hr	0.45	<4.0
9	Carbon Monoxide (CO)	GEMS/SOP/69	g/Kw-hr	0.049	<3.5
10	O2(%)	GEMS/SOP/70	%	19.02	NS

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

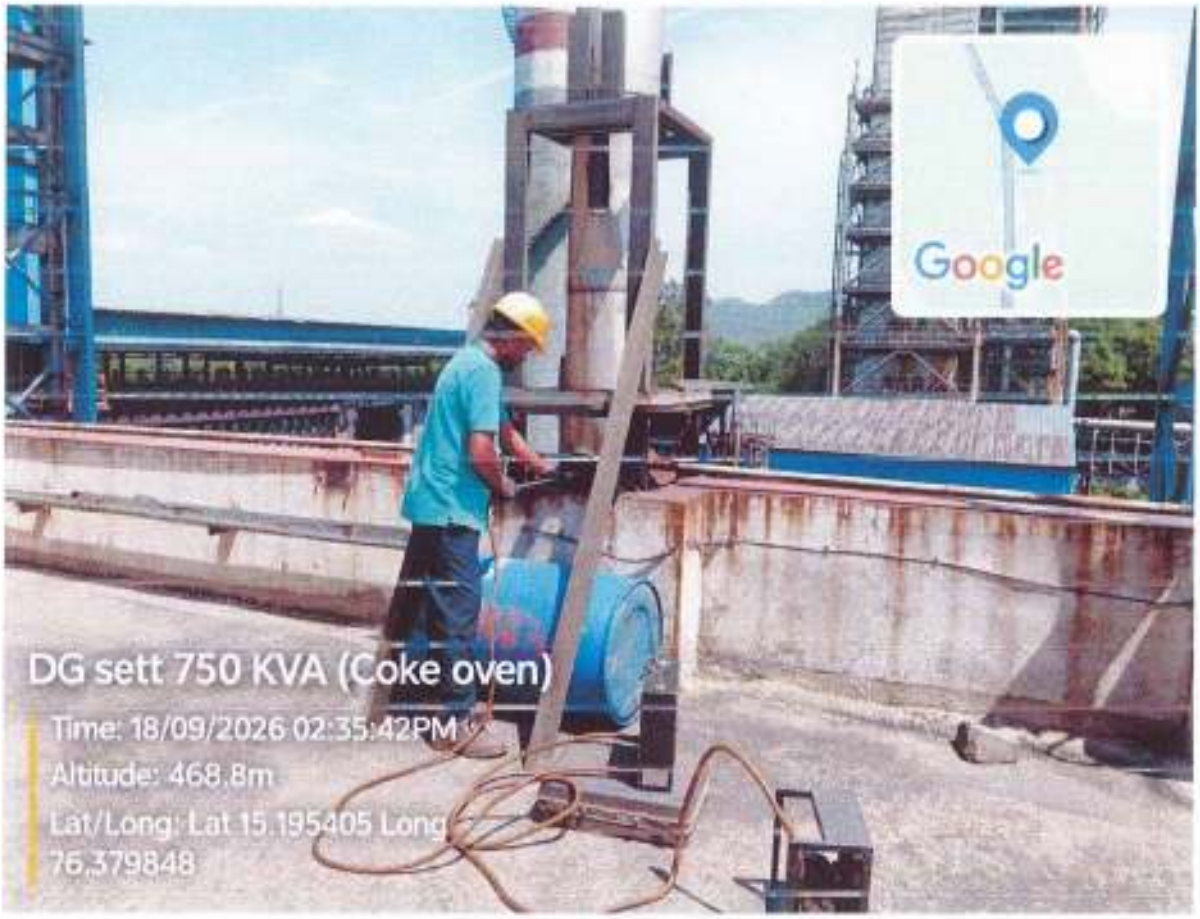
****End of the Report****

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

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

DG NOISE LEVEL MONITORING REPORT

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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	:	**SEPTEMBER-2026**
Duration of the Monitoring	:	15 Minutes
Report Issue Date	:	**08.10.2026**
Method Adopted	:	IS 9989-1981 Reaffirmed 2014
Report No	:	**GEMS/NOISE/2026-27/3475**

Sl. No	Location	Date of Monitoring	Noise Level dB (A)			CPCB Standard
			Min	Max	Leq	
Industrial Area						
1	250 KVA (New Baghouse)	18.09.2026	66.1	72.1	68.19	75
2	250 KVA ((VTH-2)	18.09.2026	65.5	72.9	69.65	
3	750 KVA (Coke Oven)	18.09.2026	70.6	74.1	72.66	
4	625 KVA (Power Plant)	18.09.2026	69.9	73.6	71.9	

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

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

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

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

SMIORE SEPTEMBER PHOTOS









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ANNEXURE-21
GEMS-LD/TF/11/01

ANALYSIS REPORT OF FUGITIVE EMISSIONS QUALITY DATA

Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), 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	:	Fugitive Emissions
Particulars of Sample Collected	:	High Volume Sampiers
Month	:	**SEPTEMBER-2026**
Duration of the Monitoring	:	8 Hrs.
Date of Analysis	:	**08.09.2026**
Date of Analysis Completion	:	**08.09.2026**
Report Issued Date	:	**08.10.2026**
Report Number	:	**GEMS/SMIORE/2026-27/3369**

Sl. No.	Location / Plant	Sample Code	Date of Sampling	Date of Sample Received	Parameters	
					SPM ($\mu g/m^3$)	Benzo(a) Pyrene (BaP), $\mu g/m^3$
				Reference Test Method	IS 5182 (Part 4): 1999 RA 2014	IS 5182 (Part XII) 2006(RA 2017)
1.	Near Battery Area (Coke Oven)	4789	05.09.2026	07.09.2026	475.29	<0.0005
2.	Coal Storage Area (Coke Oven)	4790	05.09.2026	07.09.2026	1440.57	<0.0005
Permissible Limits for Fugitive Emissions as per G.S.R. 277E. Dated on 31.03.2012					3000	2
					8hrs	8hrs

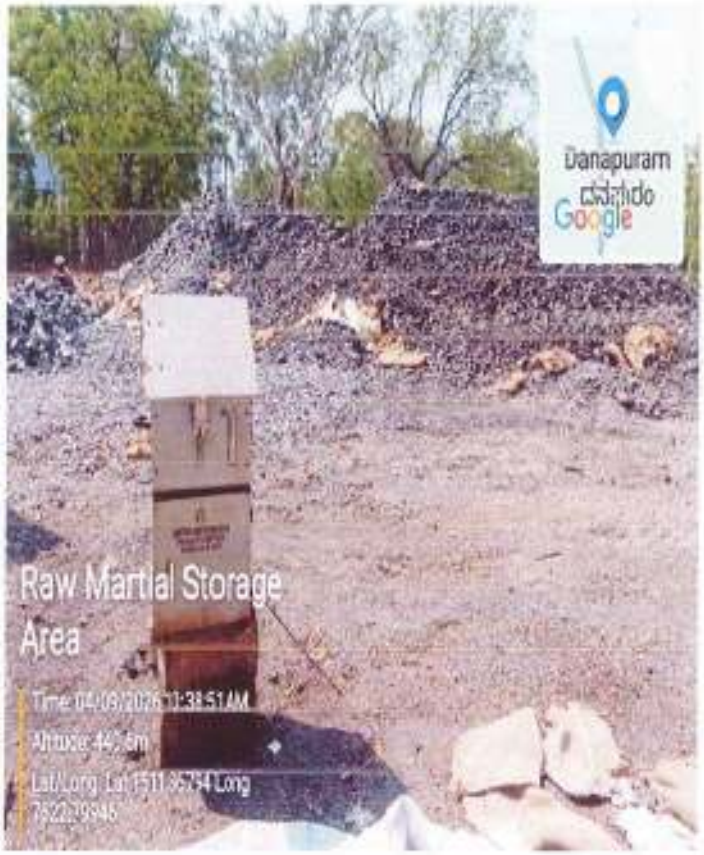
Note: SPM- Suspended Particulate matter. ($\mu g/m^3$), **INFERENCE:** The Measured Values are within the limits.

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

SMIORE SEPTEMBER PHOTOS









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ANNEXURE-22
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**RO Water**
9	Sample Location	:	**Plant Drinking Water**
10	Sample Code		**4990**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/ SMIORE /RO/2026-27/3450**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.65	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	160	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	90	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.1	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	0.00	-	-
CHEMICAL						
6	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	13.01	-	-
7	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	10.10	-	-
8	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	5.5	75max	200max
9	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	2.25	30max	100max
10	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	26	200max	600max
11	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	11.41	250max	1000 max
12	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	<0.1	1 max	1.5 max
13	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	8.45	200max	400max
14	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	1.16	45max	NR
15	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	20.01	200max	600max
16	Total Iron as Fe	APHA 24th Editon 3500 Fe B: 2023	mg/L	<0.01	0.30max	NR
17	Boron as B	APHA 24th Edition 4500 BB: 2023	mg/L	<0.01	0.5max	1.0max

Note: INFERENCE: The Measured values are within the Limit.

Analysed By
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Chemist

Verified By
Venkatesh S
Asst. General Manager

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ANNEXURE-22
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**RO Water**
9	Sample Location	:	**Plant Drinking Water**
10	Sample Code	:	**4990**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/SMIORE/RO/2026-27/3450**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
18	Odour	IS: 3025 (PART 5)- 1983, RA-2012	-	Agreeable	Agreeable	Agreeable
19	Taste	IS: 3025 (PART 8)- 1984, RA-2017	-	Agreeable	Agreeable	Agreeable
20	Temperature	APHA 24th Edition 2550 B: 2023	°C	25.9	-	-
21	Colour	APHA 24th Editon -2120 C:2023	Hazen	<5.0	5max	15max
CHEMICAL						
22	Free Residual Chloride	APHA 24th Edition 4500 Cl C: 2023	mg/L	0.00	0.2max	1max
23	Ammonia as (total Ammonia -N)	APHA 24th Edition 4500NH3 C2023	mg/L	0.00	0.5 max	No Relaxation
24	Sulphide as H2S	APHA 24th Edition 4500 S2F: 2023	mg/L	<0.01	0.05 max	No Relaxation
TRACE METALS						
25	Nickel as Ni	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.02 max	No Relaxation
26	Manganese as Mn	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.1max	0.3max
27	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.05max	1.5max
28	Barium as B	APHA 24th Edition 3111 D: 2023	mg/L	<0.001	0.7max	No Relaxation
29	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	5max	15max

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

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Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
31	Aluminum as Al	APHA 24th Edition 3111 D: 2023	mg/L	<0.01	0.03max	0.2max
32	Chromium as Cr	APHA 24th Edition 3111Cr B :2023	mg/L	<0.01	0.05max	No Relaxation
33	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.003max	No Relaxation
34	Mercury as Hg	IS 3025 (Part 48) Clause-5: 1994	mg/L	<0.0005	0.001max	No Relaxation
35	Arsenic as AS	APHA 24thEdition3114- B: 2023	mg/L	<0.002	0.01max	0.05max
36	Selenium as Se	APHA 24th Edition 3114 C: 2023	mg/L	<0.005	0.01max	No Relaxation
MICROBIOLOGY PARAMETERS						
37	Total Coli form	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	
38	Escherichia Coli	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
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SMIORE SEPTEMBER PHOTOS





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

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Vyasanakere Village**
10	Sample Code	:	**4994**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/ SMIORE /BW/2026-27/3454**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.43	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	1210	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	720	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.7	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	1.3	-	-
CHEMICAL						
6	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	47.5	-	-
7	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	0.00	-	-
8	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	181.68	75max	200max
9	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	14.45	30max	100max
10	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	501	200max	600max
11	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	118.6	250max	1000 max
12	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	0.50	1 max	1.5 max
13	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	42.85	200max	400max
14	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	8.46	45max	NR
15	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	312.0	200max	600max
16	Total Iron as Fe	APHA 24th Editon 3500 Fe B: 2023	mg/L	0.16	0.30max	NR
17	Boron as B	APHA 24th Edition 4500 BB: 2023	mg/L	<0.01	0.5max	1.0max

Note: INFERENCE: The Measured values are within the Limit.

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
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Asst. General Manager

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

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Vyasanakere Village**
10	Sample Code	:	**4994**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/SMIORE/BW/2026-27/3454**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
18	Odour	IS: 3025 (PART 5)- 1983, RA-2012	-	Agreeable	Agreeable	Agreeable
19	Taste	IS: 3025 (PART 8)- 1984, RA-2017	-	Agreeable	Agreeable	Agreeable
20	Temperature	APHA 24th Edition 2550 B: 2023	°C	25.3	-	-
21	Colour	APHA 24th Editon -2120 C:2023	Hazen	<5.0	5max	15max
CHEMICAL						
22	Free Residual Chloride	APHA 24th Edition 4500 Cl C: 2023	mg/L	0.00	0.2max	1max
23	Ammonia as (total Ammonia -N)	APHA 24th Edition 4500NH3 C2023	mg/L	0.00	0.5 max	No Relaxation
24	Sulphide as H2S	APHA 24th Edition 4500 S2F: 2023	mg/L	<0.01	0.05 max	No Relaxation
TRACE METALS						
25	Nickel as Ni	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.02 max	No Relaxation
26	Manganese as Mn	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.1max	0.3max
27	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.05max	1.5max
28	Barium as B	APHA 24th Edition 3111 D: 2023	mg/L	<0.001	0.7max	No Relaxation
29	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	5max	15max
30	Lead as Pb	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.01max	No Relaxation

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

S. Venkatesh

HOSAPETE

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GEMS/SMIORE/BW/2026-27/3454

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
31	Aluminum as Al	APHA 24th Edition 3111 D: 2023	mg/L	<0.01	0.03max	0.2max
32	Chromium as Cr	APHA 24th Edition 3111Cr B :2023	mg/L	<0.01	0.05max	No Relaxation
33	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.003max	No Relaxation
34	Mercury as Hg	IS 3025 (Part 48) Clause-5: 1994	mg/L	<0.0005	0.001max	No Relaxation
35	Arsenic as AS	APHA 24thEdition3114- B: 2023	mg/L	<0.002	0.01max	0.05max
36	Selenium as Se	APHA 24th Edition 3114 C: 2023	mg/L	<0.005	0.01max	No Relaxation
MICROBIOLOGY PARAMETERS						
37	Total Coli form	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	
38	Escherichia Coli	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	

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

Lakshmi B.S

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

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ANNEXURE-24
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Galemmanagudi Village**
10	Sample Code	:	**4992**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/ SMIORE /BW/2026-27/3452**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	8.25	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	1860	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	1120	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.3	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
CHEMICAL						
6	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	173.64	-	-
7	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	0.00	-	-
8	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	146.10	75max	200max
9	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	76.58	30max	100max
10	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	531.6	200max	600max
11	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	299.76	250max	1000 max
12	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	0.46	1 max	1.5 max
13	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	123.25	200max	400max
14	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	13.80	45max	NR
15	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	286.5	200max	600max
16	Total Iron as Fe	APHA 24th Edtion 3500 Fe B: 2023	mg/L	0.11	0.30max	NR
17	Boron as B	APHA 24th Edition 4500 BB: 2023	mg/L	<0.01	0.5max	1.0max

Note: INFERENCE: The Measured values are within the Limit.

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh 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

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ANNEXURE-24
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Galemmanagudi Village**
10	Sample Code	:	**4992**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/SMIORE/BW/2026-27/3452**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
18	Odour	IS: 3025 (PART 5)- 1983, RA-2012	-	Agreeable	Agreeable	Agreeable
19	Taste	IS: 3025 (PART 8)- 1984, RA-2017	-	Agreeable	Agreeable	Agreeable
20	Temperature	APHA 24th Edition 2550 B: 2023	°C	26.4	-	-
21	Colour	APHA 24th Editon -2120 C:2023	Hazen	<5.0	5max	15max
CHEMICAL						
22	Free Residual Chloride	APHA 24th Edition 4500 Cl C: 2023	mg/L	0.00	0.2max	1max
23	Ammonia as (total Ammonia -N)	APHA 24th Edition 4500NH3 C2023	mg/L	0.00	0.5 max	No Relaxation
24	Sulphide as H2S	APHA 24th Edition 4500 S2F: 2023	mg/L	<0.01	0.05 max	No Relaxation
TRACE METALS						
25	Nickel as Ni	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.02 max	No Relaxation
26	Manganese as Mn	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.1max	0.3max
27	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.05max	1.5max
28	Barium as B	APHA 24th Edition 3111 D: 2023	mg/L	<0.001	0.7max	No Relaxation
29	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	5max	15max
30	Lead as Pb	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.01max	No Relaxation

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

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GEMS/SMIORE/BW/2026-27/3452

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
31	Aluminum as Al	APHA 24th Edition 3111 D: 2023	mg/L	<0.01	0.03max	0.2max
32	Chromium as Cr	APHA 24th Edition 3111Cr B :2023	mg/L	<0.01	0.05max	No Relaxation
33	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.003max	No Relaxation
34	Mercury as Hg	IS 3025 (Part 48) Clause-5: 1994	mg/L	<0.0005	0.001max	No Relaxation
35	Arsenic as AS	APHA 24thEdition3114- B: 2023	mg/L	<0.002	0.01max	0.05max
36	Selenium as Se	APHA 24th Edition 3114 C: 2023	mg/L	<0.005	0.01max	No Relaxation
MICROBIOLOGY PARAMETERS						
37	Total Coli form	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	
38	Escherichia Coli	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	

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

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
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SMIORE SEPTEMBER PHOTOS





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ANNEXURE-25
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Hanumanahalli Village**
10	Sample Code	:	**4993**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/ SMIORE /BW/2026-27/3453**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
1.	pH	APHA 24th Edition 4500 H +B: 2023	-	7.85	6.5 to 8.5	NR
2	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	820	-	-
3	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	490	500max	2000 max
4	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	0.3	1 max	5max
5	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	<1.0	-	-
CHEMICAL						
6	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	83.25	-	-
7	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	0.00	-	-
8	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	34.56	75max	200max
9	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	3.11	30max	100max
10	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	285.24	200max	600max
11	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	185.44	250max	1000 max
12	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	0.23	1 max	1.5 max
13	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	118.21	200max	400max
14	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	10.45	45max	NR
15	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	184.22	200max	600max
16	Total Iron as Fe	APHA 24th Editon 3500 Fe B: 2023	mg/L	0.14	0.30max	NR
17	Boron as B	APHA 24th Edition 4500 BB: 2023	mg/L	<0.01	0.5max	1.0max

Note: INFERENCE: The Measured values are within the Limit.

Lakshmi B.S
Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

Global Environment and Mining Services HOSAPETE

- **Recognized by Ministry of Environment, Forest and Climate Change for Laboratory**
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ANNEXURE-25
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Bore Water**
9	Sample Location	:	**Hanumanahalli Village**
10	Sample Code	:	**4993**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**08.10.2026**
16	Report Number	:	**GEMS/SMIORE/BW/2026-27/3453**

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
PHYSICAL						
18	Odour	IS: 3025 (PART 5)- 1983, RA-2012	-	Agreeable	Agreeable	Agreeable
19	Taste	IS: 3025 (PART 8)- 1984, RA-2017	-	Agreeable	Agreeable	Agreeable
20	Temperature	APHA 24th Edition 2550 B: 2023	°C	26.4	-	-
21	Colour	APHA 24th Editon -2120 C:2023	Hazen	<5.0	5max	15max
CHEMICAL						
22	Free Residual Chloride	APHA 24th Edition 4500 Cl C: 2023	mg/L	0.00	0.2max	1max
23	Ammonia as (total Ammonia -N)	APHA 24th Edition 4500NH3 C2023	mg/L	0.00	0.5 max	No Relaxation
24	Sulphide as H2S	APHA 24th Edition 4500 S2F: 2023	mg/L	<0.01	0.05 max	No Relaxation
TRACE METALS						
25	Nickel as Ni	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.02 max	No Relaxation
26	Manganese as Mn	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.1max	0.3max
27	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.05max	1.5max
28	Barium as B	APHA 24th Edition 3111 D: 2023	mg/L	<0.001	0.7max	No Relaxation
29	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	5max	15max
30	Lead as Pb	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.01max	No Relaxation

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

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GEMS/SMIORE/BW/2026-27/3453

Sl. No.	Parameters	Protocol	Unit	Results	Standards as per IS: 10500:2012	
					Acceptable Limits	Permissible Limit in the Absence of Alternate Source
31	Aluminum as Al	APHA 24th Edition 3111 D: 2023	mg/L	<0.01	0.03max	0.2max
32	Chromium as Cr	APHA 24th Edition 3111Cr B :2023	mg/L	<0.01	0.05max	No Relaxation
33	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.003max	No Relaxation
34	Mercury as Hg	IS 3025 (Part 48) Clause-5: 1994	mg/L	<0.0005	0.001max	No Relaxation
35	Arsenic as AS	APHA 24thEdition3114- B: 2023	mg/L	<0.002	0.01max	0.05max
36	Selenium as Se	APHA 24th Edition 3114 C: 2023	mg/L	<0.005	0.01max	No Relaxation
37	Total Coli form	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	
38	Escherichia Coli	IS: 15185:2016 RA 2021	MPN/100ml	Absent	Shall not be detectable in any 100 ml sample	

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

Analysed By
Lakshmi B S
Chemist

Verified By
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ANNEXURE-26
GEMS-LD/TF/23/01

Analysis Report of Surface Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka,
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Surface Water**
9	Sample Location	:	**Tungabhadra Dam**
10	Sample Code	:	**4995**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**04.10.2026**
16	Report Number	:	**GEMS/SMIORE/SW/2026-27/3455**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296:1982 Standard Class C
PHYSICAL					
1	Colour	APHA 24th Editon -2120 C:2023	Hazen	8.56	300
2	pH	APHA 24th Edition 4500 H +B: 2023	-	**7.83**	6.50 to 8.5
3	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	**350**	-
4	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	**150**	-
5	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	**4.1**	-
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	**15.0**	-
CHEMICAL					
7	Biochemical Oxygen Demand for 3 days at 27°C	IS 3025 PART 44: 2023	mg/L	**3.1**	3
8	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	**6.2**	Min4
9	Chemical Oxygen Demand as O_2	APHA 24th Edition 5520 B: 2023	mg/L	**16.9**	-
10	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	**0.00**	0.1
11	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	**29.14**	-
12	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	**12.91**	-
13	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	**16.19**	-
14	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	**6.52**	-
15	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	**15.2**	-
16	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	**13.6**	600
17	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	**0.48**	1.5
18	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	**32.66**	400
19	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	**7.12**	50
20	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	**69.45**	-
21	Total Iron as Fe	APHA 24th Editon 3500 Fe B: 2023	mg/L	**0.44**	50
TRACE METALS					
22	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	**<0.005**	1.5
23	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	**<0.005**	15
24	Lead as Pb	APHA 24th Edition 3111 B: 2023	mg/L	**<0.005**	0.1
25	Chromium as Cr^{+6}	IS:3025 (Part-52)2014	mg/L	**<0.03**	0.05
26	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	**<0.001**	0.01

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				GEMS/SMIORE/SW/2026-27/3455	
27	Arsenic as AS	APHA 24thEdition3114- B: 2023	mg/L	<0.001	0.2
28	Selenium as Se	APHA 24th Edition 3114 C: 2023	mg/L	<0.005	0.05
MICROBIOLOGY PARAMETER					
29	Total Coliform	IS: 1622: 1981	MPN/100ml	112	5000

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

Analysed By
Lakshmi B S
Chemist

Verified By
Venkatesh S
Asst. General Manager

GLOBAL ENVIRONMENT & MINING SERVICES LLP
(Consulting Engineers, Mine designers, Geologist & Surveyors)
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Ph : 08394 355369
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ANNEXURE-27
GEMS-LD/TF/23/01

Analysis Report of Water Quality Data

1	Name of the Industry	:	**M/s. The Sandur Manganese & Iron Ores Ltd.** (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Vijayanagara Dist., Karnataka
2	Customer Reference	:	Workorder No.4200011817 Dated:20.08.2025
3	Sample collected by	:	Global Environment & Mining Services LLP
4	Particulars of sample collected	:	Grab Sampling
5	Sampling Procedure	:	GEMS-LD/SOP/32
6	Discipline	:	Chemical
7	Group	:	Water
8	Sample Type	:	**Surface Water**
9	Sample Location	:	**Plant Reservoir**
10	Sample Code	:	**4989**
11	Date of Sampling	:	12.09.2026
12	Sample Received	:	12.09.2026
13	Date of Analysis	:	14.09.2026
14	Date of Analysis Completion	:	18.09.2026
15	Report Issue Date	:	**04.10.2026**
16	Report Number	:	**GEMS/SMIORE/SW/2026-27/3449**

Sl. No.	Parameters	Protocol	Unit	Results	IS 2296:1982 Standard Class C
PHYSICAL					
1.	Colour	APHA 24th Editon -2120 C:2023	Hazen	<5	300
2	pH	APHA 24th Edition 4500 H +B: 2023	-	7.85	6.50 to 8.5
3	Conductivity	APHA 24th Edition 2510 A: 2023	µS/cm	460	-
4	Total Dissolved Solids	APHA 24th Edition 2540 C: 2023	mg/L	220	-
5	Turbidity (NTU)	APHA 24th Edition 2130 B: 2023	NTU	2.4	-
6	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	6.0	-
CHEMICAL					
7	Biochemical Oxygen Demand for 3 days at 27°C	IS 3025 PART 44: 2023	mg/L	4.5	3
8	Dissolved Oxygen	APHA 24thEditin 4500 O C:2023	mg/L	4.6	4
9	Chemical Oxygen Demand as O_2	APHA 24th Edition 5520 B: 2023	mg/L	18.16	-
10	Oil & Grease	APHA 24th Edition 5520 B: 2023	mg/L	0.00	0.1
11	Sodium as Na	APHA 24th Edition 3500 Na B: 2023	mg/L	24.23	-
12	Potassium as K	APHA 24th Edition 3500 K B: 2023	mg/L	13.26	-
13	Calcium as Ca	APHA 24th Edition 3500 Ca B: 2023	mg/L	22.18	-
14	Magnesium as Mg	APHA 24th Edition 3500 Mg B: 2023	mg/L	6.25	-
15	Total Hardness as CaCO3	APHA 24th Edition 2340 C: 2023	mg/L	79.26	-
16	Chloride as Cl	APHA 24th Edition 4500 Cl B: 2023	mg/L	35.26	600
17	Fluoride as F	APHA 24thEditin 4500 F D: 2023	mg/L	0.56	1.5
18	Sulphate as SO4	APHA 24th Edition 4500 SO4 E: 2023	mg/L	101.26	400
19	Nitrate as NO3	APHA 24th Edition 4500 NO3 E: 2023	mg/L	9.25	50
20	Total Alkalinity as CaCO3	APHA 24th Edition 2320 B: 2023	mg/L	75.25	-
21	Total Iron as Fe	APHA 24th Editon 3500 Fe B: 2023	mg/L	0.12	50
TRACE METALS					
22	Copper as Cu	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	1.5
23	Zinc as Zn	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	15
24	Lead as Pb	APHA 24th Edition 3111 B: 2023	mg/L	<0.005	0.1
25	Chromium as Cr+6	IS:3025 (Part-52)2014	mg/L	<0.03	0.05
26	Cadmium as Cd	APHA 24th Edition 3111 B: 2023	mg/L	<0.001	0.01

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

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Verified By
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Asst. General Manager

SMIORE SEPTEMBER PHOTOS



