

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/2025-26/034 12th Aug 2025

To,

The Environmental Officer,
Regional Office & Zonal office
Karnataka State Pollution Control Board
Sri Sai Sharan plaza, No. 71/A, 2nd floor,
Dam road, Hosapete- 583203, Vijayanagar District.

Subject: Environmental monitoring report of The Sandur Manganese & Iron Ores Limited, Vyasankere , Hosapete for the month of **July-2025**.

Reference: 1) CFO No. AW-329576 PCB ID 29470 Dated 02.02.2022
2) Amended CFO No. AW-335581 PCB ID 29470 Dated 17.01.2023.

Dear Sir,

With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasankere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period **July-2025** for your kind perusal.

Kindly acknowledge receipt of the same and oblige.

Thanking you,

For The Sandur Manganese & Iron Ores Limited



Parvatareddy Patil
Senior General Manager-Plant



Encl: Environmental Monitoring Report **July-2025**

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasankere, Mariyammanahalli - 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

Project	The Sandur Manganese & Iron Ores Ltd (Metal & Ferro Alloys Plant),
Location	Vyasanakere, Hanumanahalli Village, Hosapete
Monitoring Month	July -2025

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services LLP)

(Accredited by NABL & MOEF&CC Under E(P) Act 1986)

#948, 2nd Cross, Kammanahalli Main Road,

St Thomas Town Post,

Bangalore- 560 084, Karnataka

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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Recognised by MoEFCC(CPCB) under E(P) Act 1986 Recognition valid upto 23.05.2028

TEST REPORT

AMBIENT AIR QUALITY

Table No. 1

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),						
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Particulars of sample collected	: A1 - Near Existing AAQMS 01 (SMIORE School)						
Instrument Used	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 528 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 392 H 24						
Calibration due date	: 26.02.2026						
Duration	: 24 Hrs						
Issue date	: 02.08.2025						
Reference	IS 5182 & Lab SOP						
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
04.07.2025	N010325071	7	9	56	27	<20	<1
05.07.2025	N008525072	8	12	45	23	<20	<1
07.07.2025	N013125072	6	11	49	26	<20	<1
08.07.2025	N018625072	5	9	50	27	<20	<1
18.07.2025	N032525073	8	10	53	28	<20	<1
19.07.2025	N006525074	9	12	47	26	<20	<1
21.07.2025	N011925074	7	10	44	22	<20	<1
22.07.2025	N017225074	9	11	38	19	<20	<1
28.07.2025	N010025075	10	12	35	18	<20	<1
29.07.2025	N015925075	8	9	52	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	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	Ozone* (O ₃), µg/m ³
04.07.2025	N010325071	0.19	<0.1	<0.5	<0.5	0.24	21
05.07.2025	N008525072	0.21	<0.1	<0.5	<0.5	0.29	20
07.07.2025	N013125072	0.15	<0.1	<0.5	<0.5	0.21	25
08.07.2025	N018625072	0.22	<0.1	<0.5	<0.5	0.32	24
18.07.2025	N032525073	0.18	<0.1	<0.5	<0.5	0.28	26
19.07.2025	N006525074	0.14	<0.1	<0.5	<0.5	0.26	25
21.07.2025	N011925074	0.19	<0.1	<0.5	<0.5	0.25	21
22.07.2025	N017225074	0.25	<0.1	<0.5	<0.5	0.33	26
28.07.2025	N010025075	0.22	<0.1	<0.5	<0.5	0.28	24
29.07.2025	N015925075	0.19	<0.1	<0.5	<0.5	0.21	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 2

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: A2 - Existing Water Reservoir (Near WTP Plant)
Instrument Used	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 529 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 393 H 24
Calibration due date	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 02.08.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
04.07.2025	N010425071	7	12	50	26	<20	<1
05.07.2025	N008625072	6	9	45	24	<20	<1
07.07.2025	N013225072	8	11	55	29	<20	<1
08.07.2025	N018725072	7	9	49	26	<20	<1
18.07.2025	N032625073	8	9	47	25	<20	<1
19.07.2025	N006625074	7	12	52	28	<20	<1
21.07.2025	N012025074	6	10	43	25	<20	<1
22.07.2025	N017325074	7	9	35	19	<20	<1
28.07.2025	N010125075	8	11	51	27	<20	<1
29.07.2025	N016025075	9	12	40	24	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	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	Ozone* (O ₃), µg/m ³
04.07.2025	N010425071	0.17	<0.1	<0.5	<0.5	0.29	20
05.07.2025	N008625072	0.11	<0.1	<0.5	<0.5	0.35	21
07.07.2025	N013225072	0.15	<0.1	<0.5	<0.5	0.42	22
08.07.2025	N018725072	0.13	<0.1	<0.5	<0.5	0.22	20
18.07.2025	N032625073	0.11	<0.1	<0.5	<0.5	0.35	22
19.07.2025	N006625074	0.21	<0.1	<0.5	<0.5	0.29	21
21.07.2025	N012025074	0.12	<0.1	<0.5	<0.5	0.27	21
22.07.2025	N017325074	0.15	<0.1	<0.5	<0.5	0.31	20
28.07.2025	N010125075	0.19	<0.1	<0.5	<0.5	0.23	28
29.07.2025	N016025075	0.11	<0.1	<0.5	<0.5	0.25	27
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 3

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: A3 - Galemmanagudi
Instrument Used	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 527 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 331 J 24
Calibration due date	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 02.08.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
04.07.2025	N010525071	10	13	36	19	<20	<1
05.07.2025	N008725072	5	9	40	15	<20	<1
07.07.2025	N013325072	9	9	34	19	<20	<1
08.07.2025	N018825072	8	12	39	15	<20	<1
18.07.2025	N032725073	6	10	51	26	<20	<1
19.07.2025	N006725074	9	8	46	24	<20	<1
21.07.2025	N012125074	7	9	53	28	<20	<1
22.07.2025	N017425074	7	10	38	21	<20	<1
28.07.2025	N010225075	6	11	40	23	<20	<1
29.07.2025	N016125075	7	9	34	19	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	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	Ozone* (O ₃), µg/m ³
04.07.2025	N010525071	0.21	<0.1	<0.5	<0.5	0.29	24
05.07.2025	N008725072	0.11	<0.1	<0.5	<0.5	0.31	25
07.07.2025	N013325072	0.19	<0.1	<0.5	<0.5	0.27	26
08.07.2025	N018825072	0.14	<0.1	<0.5	<0.5	0.25	22
18.07.2025	N032725073	0.11	<0.1	<0.5	<0.5	0.31	21
19.07.2025	N006725074	0.22	<0.1	<0.5	<0.5	0.21	25
21.07.2025	N012125074	0.24	<0.1	<0.5	<0.5	0.25	22
22.07.2025	N017425074	0.17	<0.1	<0.5	<0.5	0.29	20
28.07.2025	N010225075	0.14	<0.1	<0.5	<0.5	0.25	21
29.07.2025	N016125075	0.22	<0.1	<0.5	<0.5	0.35	26
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 4

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: A4 - Near Plant Railway Siding
Instrument Used	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 533 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 525 J 24
Calibration due date	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 02.08.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
04.07.2025	N010625071	8	10	36	16	<20	<1
05.07.2025	N008825072	6	12	39	18	<20	<1
07.07.2025	N013425072	5	9	47	25	<20	<1
08.07.2025	N018925072	8	9	50	28	<20	<1
18.07.2025	N032825073	9	11	44	23	<20	<1
19.07.2025	N006825074	6	10	53	28	<20	<1
21.07.2025	N012225074	7	9	43	20	<20	<1
22.07.2025	N017525074	10	12	37	15	<20	<1
28.07.2025	N010325075	8	11	46	22	<20	<1
29.07.2025	N016225075	9	10	39	19	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Report No	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	Ozone* (O ₃), µg/m ³
04.07.2025	N010625071	0.13	<0.1	<0.5	<0.5	0.26	22
05.07.2025	N008825072	0.24	<0.1	<0.5	<0.5	0.21	20
07.07.2025	N013425072	0.20	<0.1	<0.5	<0.5	0.28	24
08.07.2025	N018925072	0.19	<0.1	<0.5	<0.5	0.26	20
18.07.2025	N032825073	0.15	<0.1	<0.5	<0.5	0.22	25
19.07.2025	N006825074	0.17	<0.1	<0.5	<0.5	0.31	33
21.07.2025	N012225074	0.11	<0.1	<0.5	<0.5	0.25	28
22.07.2025	N017525074	0.13	<0.1	<0.5	<0.5	0.29	20
28.07.2025	N010325075	0.21	<0.1	<0.5	<0.5	0.21	24
29.07.2025	N016225075	0.23	<0.1	<0.5	<0.5	0.25	20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 5

AMBIENT NOISE LEVEL DATA

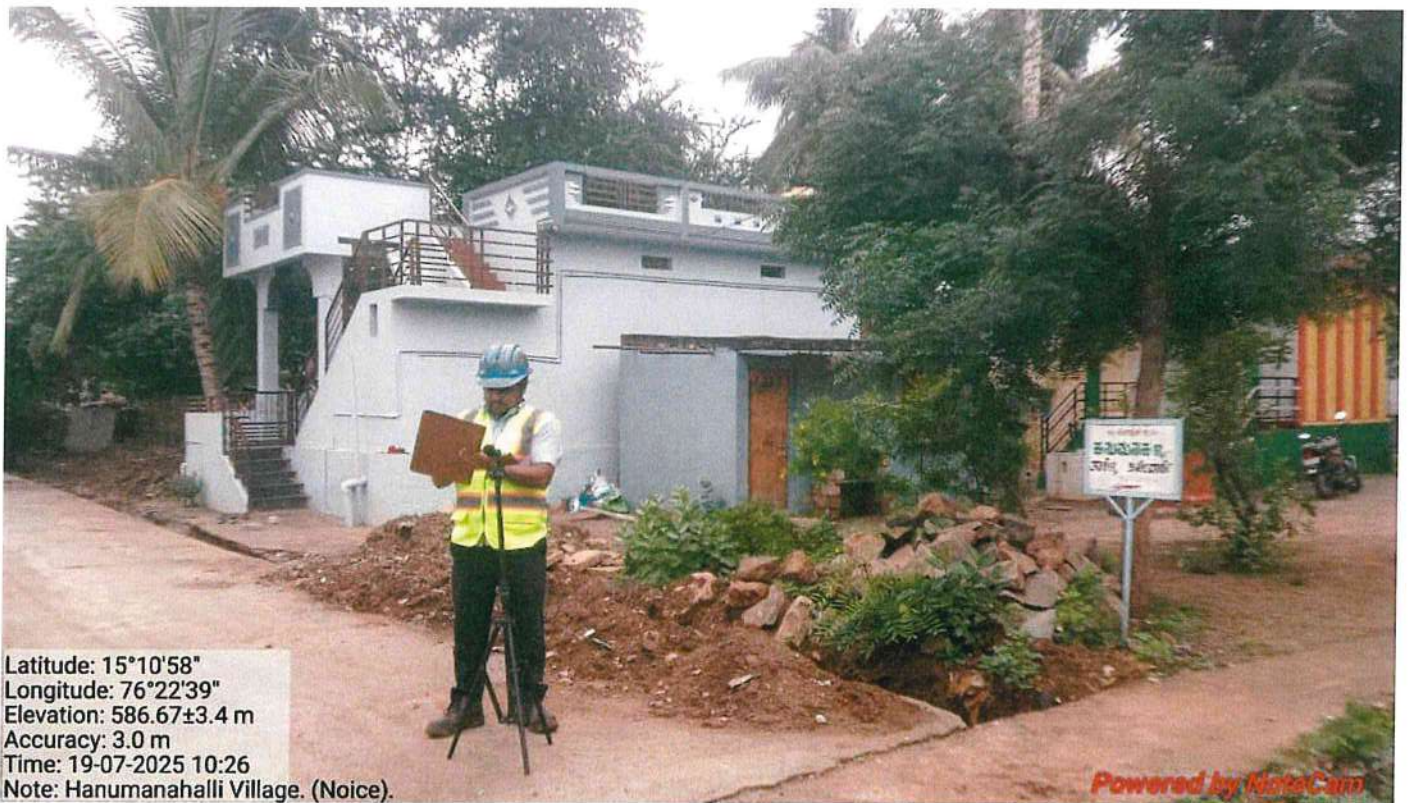
Report No. ELMES0242507

Name of the Industry		: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),					
Address		: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,					
Instrument used for sampling		: Ambient Noise Level collected through Sound Level Meter (HTC SL-1352 Data Logger)					
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)					
Date of sample collection		: 19.07.2025					
Issue Date		: 02.08.2025					
Sampling & Test Method		: IS:9989					
Code No.	Particulars of sample collected	Day			Night		
		(06.00 Am to 10.00 Pm)			(10.00 Pm to 06.00 Am)		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Core zone							
N1	Near Existing AAQMS 01 (SMIORE Schools)	39.0	55.5	62.2	34.0	45.9	53.2
N2	Near Water Reservoir (WTP Plant)	40.3	53.7	58.4	34.5	50.6	56.0
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u> Leq. Limit dB(A) Day Night Industrial areas 75 70							
Code No.	Particulars of sample collected	Day			Night		
		(06.00 Am to 10.00 Pm)			(10.00 Pm to 06.00 Am)		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Buffer zone							
N3	Near Galemmanagudi	37.0	49.9	53.2	34.0	42.5	44.5
N4	Vysanakere Village	39.0	52.2	54.2	34.0	43.6	43.7
N5	Hanumanhalli village	40.0	52.0	54.3	35.0	41.3	44.1
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u> Leq. Limit dB(A) Day Night Commercial area 65 55 Residential area 55 45							

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TEST REPORT

Table No. 6

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: ARC Furnace area
Stack ID	: Stack Attached to Furnace - 3
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 21.07.2025
Date of Sample Receipt	: 22.07.2025
Report No	
Issue date	: 02.08.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	316
4	Velocity (m/s)	5.64
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m ²)	95733
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	45762
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration due date	15.07.2026

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	30.22	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	16.11	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	20.18	--	IS: 11255(Part-7) 2017
4	CO	%	0.14	--	flue gas analyser
5	Oxygen (O ₂)	%	17.11	--	flue gas analyser

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TEST REPORT

Table No.7

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: ARC Furnace area
Stack ID	: Stack Attached to Furnace -5
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 21.07.2025
Date of Sample Receipt	: 22.07.2025
Report No	: N000525074
Issue date	: 02.08.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	300
4	Velocity (m/s)	13.24
5	Stack Height (M)	35
6	Stack Diameter (M)	3.0
7	Cross Sectional Area in meter square (m ²)	95733
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	159109
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration due date	15.07.2026

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	26.22	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	16.21	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	26.22	--	IS: 11255(Part-7) 2017
4	CO	%	0.50	--	flue gas analyser
5	Oxygen (O ₂)	%	18.22	--	flue gas analyser

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TEST REPORT

Table No. 8

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -01
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 22.07.2025
Date of Sample Receipt	: 23.07.2025
Report No	: N000625074
Issue date	: 02.08.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	29
3	Stack Temperature ($^{\circ}\text{C}$)	163
4	Velocity (m/s)	9.24
5	Stack Height (M)	60
6	Stack Diameter (M)	4.6
7	Cross Sectional Area in meter square (m^2)	16.62647
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	343024
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	86 BTF 12
12	Calibration due date	15.07.2026

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm^3	40.22	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	43.25	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	55.13	500	IS: 11255(Part-7) 2017
4	CO	%	0.49	Max1%	flue gas analyser
5	Oxygen (O_2)	%	6.99	--	flue gas analyser

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TEST REPORT

Table No. 9

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coal Crushing
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 22.07.2025
Date of Sample Receipt	: 23.07.2025
Report No	: N000725074
Issue date	: 02.08.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	80
4	Velocity (m/s)	7.75
5	Stack Height (M)	15
6	Stack Diameter (M)	0.7
7	Cross Sectional Area in meter square (m ²)	0.4419
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	10755
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration due date	15.07.2026

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	40.10	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 10

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 22.07.2025
Date of Sample Receipt	: 23.07.2025
Report No	: N000825074
Issue date	: 02.08.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	29
3	Stack Temperature (°C)	83
4	Velocity (m/s)	7.61
5	Stack Height (M)	15
6	Stack Diameter (M)	0.7
7	Cross Sectional Area in meter square (m ²)	0.3850
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	8012
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	86 BTF 12
12	Calibration due date	15.07.2026

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	34.12	50	IS: 11255(Part-1) 2014

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TEST REPORT

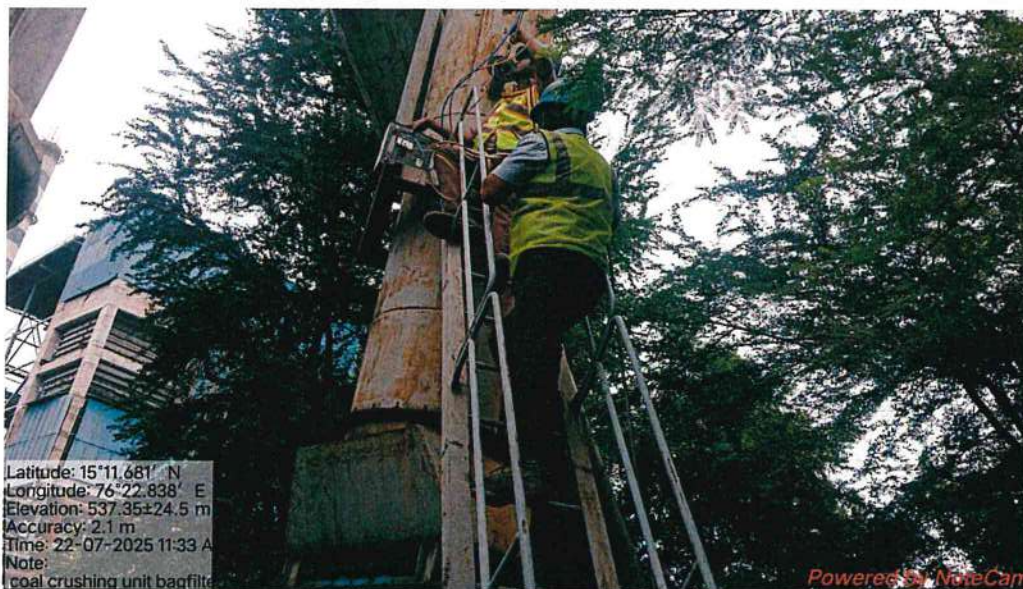
Table No. 11

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),				
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,				
Location	: Coke Oven Plant				
Stack ID	: Stack Attached to Coke Screening & Store				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
instrument used for sampling	: Emissions collected through stack sampler				
Date of Collection	: 22.07.2025				
Date of Sample Receipt	: 23.07.2025				
Report No	: N000925074				
Issue date	: 02.08.2025				
STACK DETAILS					
1	Fuel Used	-			
2	Ambient Temperature ($^{\circ}\text{C}$)	29			
3	Stack Temperature ($^{\circ}\text{C}$)	70			
4	Velocity (m/s)	8.87			
5	Stack Height (M)	15			
6	Stack Diameter (M)	0.7			
7	Cross Sectional Area in meter square (m^2)	0.3850			
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	7348			
9	Sample Condition When Received	Satisfactory			
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1			
11	Serial No. of the Equipment	86 BTF 12			
12	Calibration due date	15.07.2026			
Pollutional Parameters (Result)					
Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm^3	35.21	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No.12

Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vyasanakere village, Hosapete Taluk, Ballari District, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: SW1 - Nallah water in side the Plant
Date of sample collection	: 19.07.2025
Date of sample receipt	: 21.07.2025
Issue Date	: 02.08.2025
Ref:IS : 2296, 1982 Class C Norms (Stream Water Standards)	

SI No.	Report No	M000125074	Limits	Method of Testing
	Samples Code	SW1		
	Parameters	Results		
1	Colour (Hazen Units)	50	300	IS 3025 (Part 4) 2021
2	pH	6.90	6.5 to 8.5	IS 3025 (Part 11) 2022
3	Dissolved Oxygen (as O ₂), mg/l	5.00	Min 4	IS 3025 (Part 38):1989 RA 2019
4	Biochemical Oxygen Demand (as O ₂), mg/l	<3	Max 3	IS 3025 (Part 44) 2023
5	Total Coliform (MPN/100ml)	210	5000	IS 15185 2016 RA 2021
6	Total Dissolved Solids, (mg/l)	170	1500	IS 3025 (Part 16) 2023
7	Chloride (as Cl),mg/l	15.0	600	IS 3025 (Part 32) :1988 RA 2019
8	Sulphates as SO ₄ (mg/l)	70.0	400	APHA (24th Edition):4110B
9	Nitrates (as NO ₃),mg/l	7.50	50	IS 3025 (Part 34-Sec1) 2023
10	Fluoride (as F),mg/l	0.40	1.5	IS 3025 (Part 60-Sec1) 2023
11	Copper (as Cu),mg/l	<0.0005	1.5	IS 3025 (Part 65) 2022
12	Iron (as Fe),mg/l	<0.005	50	IS 3025 (Part 65) 2022
13	Zinc (as Zn),mg/l	<0.005	15	IS 3025 (Part 65) 2022
14	Total Arsenic (as As), (mg/l)	<0.0005	0.2	IS 3025 (Part 65) 2022
15	Lead (as Pb), mg/l	<0.0005	0.1	IS 3025 (Part 65) 2022
16	Cadmium (as Cd), mg/l,	<0.0005	0.01	IS 3025 (Part 65) 2022
17	Hexavalent Chromium (as Cr ⁺⁶), mg/l,	<0.03	0.05	IS 3025 (Part 52):2019 RA 2023
18	Selenium (as Se), mg/l	<0.0005	0.05	IS 3025 (Part 65) 2022
19	Cyanide (as CN), mg/l,	<0.01	0.05	IS 3025 (Part 27/Sec1) 2021
20	Phenolic compounds (as C ₆ H ₅ OH),mg/l	<0.001	0.005	IS 3025 (Part 43/Sec1) 2022
21	Anionic detergents (as MBAS),mg/l	<0.1	1.0	IS 3025 (Part 68) 2023

""END OF REPORT""

BINU MANI

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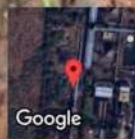
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19/07/2025 11:49 AM GMT +05:30

GPS Map Camera



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TEST REPORT

Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited				
Name of the Project	: Iron & Steel Plant at Vysanakere village, Hosapete Taluk, Ballari District, Karnataka				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
Particulars of sample collected	: 50 KLD STP Water				
Date of sample collection	: 22.07.2025				
Date of sample receipt	: 23.07.2025				
Report No	: M000225074				
Issue Date	: 02.08.2025				
Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes					
Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.30	6.5 - 9.0	IS 3025 (P-11) 2022
2	Biochemical Oxygen Demand BOD ₃ 27 ⁰ C	mg/l	2.5	<10	IS 3025 (Part 44) 2023
3	Chemical Oxygen Demand (COD)	mg/l	40	<50	IS 3025 (Part 58) 2023
4	Total Suspended Solids, at 105 ⁰ C	mg/l	12	<20	IS 3025 (P-17) 2022
5	Ammonium (H4-N)	mg/l	3.3	<5	IS:3025 (Part-34 Sec 1) 2023
6	Total Nitrogen (N-Total)	mg/l	1.5	<10	IS 3025 (Part-34 sec 1) 2023
7	Fecal coliform	MPN/100ml	20	<100	APHA 24 th Edition chapter 9221 E

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Latitude: 15° 11' 37"
Longitude: 76° 22' 43"
Elevation: 517.73±3 m
Accuracy: 3.6 m
Date: 22-07-2025
GPSTime: 10:10 AM

Note: STP water sample Smiore plant

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