

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
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CORPORATE OFFICE

'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India
Tel: +91 80 4152 0176 - 79 / 4547 3000
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Ref No: SMIORE/PLANT/ENV/MR/2025-26/027

09th July 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 **June-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.

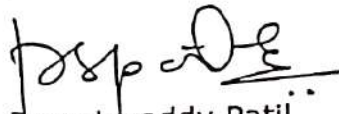
Dear Sir,

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 **June-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 **June-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

Page 1 of 1

ಪ್ರೀಕ್ಷೆ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೆಚ್ಚಿನವೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: ೧೭/೦೭/೨೫ ಸಹಿ

ENVIRONMENTAL MONITORING REPORT

Project	The Sandur Manganese & Iron Ores Ltd (Metal & Ferro Alloys Plant),
Location	Vyasanakere, Hanumanahalli Village, Hosapete
Monitoring Month	June -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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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 : 01.07.2025
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
06.06.2025	N017025062	13	16	56	29	<20	<1
07.06.2025	N006125063	14	17	60	33	<20	<1
13.06.2025	N027725063	12	14	58	30	<20	<1
14.06.2025	N034125063	10	11	53	27	<20	<1
16.06.2025	N003025064	14	13	49	26	<20	<1
17.06.2025	N007825064	12	14	56	28	<20	<1
27.06.2025	N029125065	11	16	38	23	<20	<1
28.06.2025	N031525065	10	15	50	26	<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
06.06.2025	N017025062	0.18	<0.1	<0.5	<0.5	0.30	0
07.06.2025	N006125063	0.11	<0.1	<0.5	<0.5	0.25	0
13.06.2025	N027725063	0.16	<0.1	<0.5	<0.5	0.45	0
14.06.2025	N034125063	0.18	<0.1	<0.5	<0.5	0.33	0
16.06.2025	N003025064	0.11	<0.1	<0.5	<0.5	0.22	0
17.06.2025	N007825064	0.13	<0.1	<0.5	<0.5	0.25	0
27.06.2025	N029125065	0.11	<0.1	<0.5	<0.5	0.23	0
28.06.2025	N031525065	0.19	<0.1	<0.5	<0.5	0.33	0
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Arshiya Kousar
ARSHIYA KOUSAR
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Govt. Analyst / Authorised Signatory

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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 : 01.07.2025
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
06.06.2025	N017125062	6	13	48	27	<20	<1
07.06.2025	N006225063	9	12	55	30	<20	<1
13.06.2025	N027825063	10	13	38	19	<20	<1
14.06.2025	N034225063	9	11	44	24	<20	<1
16.06.2025	N003125064	11	13	40	22	<20	<1
17.06.2025	N007925064	12	14	54	27	<20	<1
27.06.2025	N029225065	7	9	58	32	<20	<1
28.06.2025	N031625065	11	13	54	27	<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
06.06.2025	N017125062	0.17	<0.1	<0.5	<0.5	0.28	26
07.06.2025	N006225063	0.16	<0.1	<0.5	<0.5	0.22	22
13.06.2025	N027825063	0.13	<0.1	<0.5	<0.5	0.22	28
14.06.2025	N034225063	0.11	<0.1	<0.5	<0.5	0.23	24
13.06.2025	N027825063	0.13	<0.1	<0.5	<0.5	0.22	28
17.06.2025	N007925064	0.18	<0.1	<0.5	<0.5	0.31	25
27.06.2025	N029225065	0.11	<0.1	<0.5	<0.5	0.36	21
28.06.2025	N031625065	0.10	<0.1	<0.5	<0.5	0.22	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. 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 : 01.07.2025
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
06.06.2025	N017225062	13	15	55	28	<20	<1
07.06.2025	N006325063	9	11	53	26	<20	<1
13.06.2025	N027925063	12	14	50	24	<20	<1
14.06.2025	N034325063	9	11	46	23	<20	<1
16.06.2025	N003225064	10	12	40	22	<20	<1
17.06.2025	N008025064	7	9	46	25	<20	<1
27.06.2025	N029325065	9	11	48	25	<20	<1
28.06.2025	N031725065	11	13	46	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
06.06.2025	N017225062	0.13	<0.1	<0.5	<0.5	0.35	22
07.06.2025	N006325063	0.17	<0.1	<0.5	<0.5	0.25	21
13.06.2025	N027925063	0.13	<0.1	<0.5	<0.5	0.22	23
14.06.2025	N034325063	0.11	<0.1	<0.5	<0.5	0.31	24
16.06.2025	N003225064	0.16	<0.1	<0.5	<0.5	0.35	25
17.06.2025	N008025064	0.18	<0.1	<0.5	<0.5	0.28	31
27.06.2025	N029325065	0.21	<0.1	<0.5	<0.5	0.26	28
28.06.2025	N031725065	0.18	<0.1	<0.5	<0.5	0.22	24
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 : 01.07.2025
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
06.06.2025	N017325062	10	12	56	29	<20	<1
07.06.2025	N006425063	9	11	51	27	<20	<1
13.06.2025	N028025063	10	13	45	26	<20	<1
14.06.2025	N034425063	7	9	54	30	<20	<1
16.06.2025	N003325064	11	15	58	33	<20	<1
17.06.2025	N008125064	12	16	43	24	<20	<1
27.06.2025	N029425065	10	12	57	26	<20	<1
28.06.2025	N031825065	11	14	55	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
06.06.2025	N017325062	0.16	<0.1	<0.5	<0.5	0.25	26
07.06.2025	N006425063	0.15	<0.1	<0.5	<0.5	0.36	25
13.06.2025	N028025063	0.21	<0.1	<0.5	<0.5	0.31	22
07.06.2025	N006425063	0.15	<0.1	<0.5	<0.5	0.36	25
16.06.2025	N003325064	0.19	<0.1	<0.5	<0.5	0.22	23
17.06.2025	N008125064	0.13	<0.1	<0.5	<0.5	0.24	27
27.06.2025	N029425065	0.11	<0.1	<0.5	<0.5	0.36	25
28.06.2025	N031825065	0.15	<0.1	<0.5	<0.5	0.25	30
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

Analysis Report of Fugitive Emission

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)
Station : Near Battery Area (Coke Oven)
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 530 B 25
Calibration due date : 26.02.2026
Duration : 08 Hrs
Issue date : 01.07.2025
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)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
16.06.2025	N003425064	9	15	296	0.22	0.36	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150 8 Hrs	120 8 Hrs	3000 8 Hrs	2.0 8 Hrs	10 1 Hr	2 8 Hrs

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 6

Analysis Report of Fugitive Emission

Name of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Address : Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Station : Coal Storage area (Coke Oven)
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 523 B 25
Calibration due date : 26.02.2026
Duration : 08 Hrs
Issue date : 01.07.2025
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)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
16.06.2025	N003525064	10	11	265	0.31	0.48	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	120	3000	2.0	10	2
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr	8 Hrs

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 7

Analysis Report of Fugitive Emission

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)						
Station : Finished goods yard in between F3 & F5 (M&FA)						
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 09 D 24						
Calibration due date : 26.02.2026						
Duration : 08 Hrs						
Issue date : 01.07.2025						
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 (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
17.06.2025	N008225064	14	16	288	0.29	0.33
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	120	3000	2.0	10
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

Arshiya Kousar
ARSHIYA KOUSAR
Dy T.M. - Chemical
Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 8

Analysis Report of Fugitive Emission

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)						
Station : Raw martial storage area (M&FA)						
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 530 B 25						
Calibration due date : 26.02.2026						
Duration : 08 Hrs						
Issue date : 01.07.2025						
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 (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
17.06.2025	N008325064	9	13	321	0.22	0.47
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	120	3000	2.0	10
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr
Note : * Parameters monitored for period of 1 hr						

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TEST REPORT

Table No. 9

AMBIENT NOISE LEVEL DATA

Report No. ELMES042506

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	: 14.06.2025						
Issue Date	: 20.06.2025						
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)	38.0	57.0	65.0	34.0	44.6	50.2
N2	Near Water Reservoir (WTP Plant)	42.1	55.1	61.0	35.0	50.0	56.0
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines 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	36.0	49.3	56.1	34.0	42.7	47.2
N4	Vysanakere Village	38.0	52.5	57.2	35.2	44.2	48.0
N5	Hanumanhalli village	40.0	52.3	58.0	34.8	41.2	47.8
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) Day Night Commercial area 65 55 Residential area 55 45							

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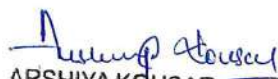
TEST REPORT

Table No. 10

FUGITIVE NOISE LEVEL DATA

Report No.ELMES052506

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		: 17.06.2025									
Issue Date		: 20.06.2025									
Code No.	Monitoring stations	Day			Remarks						
		L _{min}	L _{eq}	L _{max}							
Corezone											
1	ARC Furnace -3 area	53.2	73.2	78.2	During operation						
2	Raw material storage area (M&FA)	45.0	66.0	74.0	During operation						
3	Near Battery Area (Coke Oven)	41.3	63.2	72.1	During operation						
4	Coal Storage area (Coke Oven)	48.2	70.2	76.6	During operation						
5	Finished goods yard in between F3 & F5 (M&FA)	40.6	68.0	74.2	During operation						
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="0"> <tr> <td></td> <td>Day</td> <td>Night</td> </tr> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> </table> Permissible limits as per ILO Code of Practice For Unprotected ear - 8 hrs working shift Warning limit - 85 dB(A) Danger limit - 90 dB(A) Worker not to be exposed for more than 115 dB(A) With ear protection - 130 dB(A) 'Impulse' or 120 dB(A) 'Fast' No entry when noise level exceeds 140 dB(A)							Day	Night	Industrial areas	75	70
	Day	Night									
Industrial areas	75	70									


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TEST REPORT

Table No. 11

FUGITIVE NOISE LEVEL DATA

Report No.ELMES062506

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		: 16.06.2025	
Issue Date		: 20.06.2025	

Code No.	Sample Location	Remarks	Parameters	
			Sound level in dB(A)	
			L _{eq}	CPCB Std.
N1	Stack Attached to 750 KVA (Coke Oven)	Monitoring done at 1mts distance from DG Set	74.3	75.0
N2	Stack Attached to 250 KVA at VHT-2		73.2	
N3	Stack Attached to 250 KVA at New Baghouse		72.1	
N4	Stack Attached to 625 KVA (Power Plant)		73.5	

Note

- Day Time is reckoned between 6 Am to 10 PM
- Night Time is reckoned between 10 Pm to 6Am
- L_{eq} It is energy means of the noise level over a specified period.
- "dB (A) L_{eq} denotes the time weighted average of the level of sound in decibels on scale 'A' which is related to human hearing.
- A "decible" is a unit in which noise is measured.
- "A", in dB(A) L_{eq}, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristic of human ear.

INFERENCE	As per CPCB standards, Report status: - The measured values for the above locations are within the standards
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TEST REPORT

Table No.12

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	: 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	: 17.06.2025
Date of Sample Receipt	: 18.06.2025
Report No	: N001425064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	33
3	Stack Temperature ($^{\circ}\text{C}$)	310
4	Velocity (m/s)	5.61
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)	45997
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	15.07.2025

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	33.25	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	16.85	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	22.12	--	IS: 11255(Part-7) 2017
4	CO	%	0.15	--	flue gas analyser
5	Oxygen (O_2)	%	17.23	--	flue gas analyser

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TEST REPORT

Table No.13

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	: 17.06.2025
Date of Sample Receipt	: 18.06.2025
Report No	: N001525064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	33
3	Stack Temperature ($^{\circ}\text{C}$)	315
4	Velocity (m/s)	14.23
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)	166665
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	15.07.2025

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	18.65	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	18.11	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	24.21	--	IS: 11255(Part-7) 2017
4	CO	%	0.52	--	flue gas analyser
5	Oxygen (O_2)	%	18.86	--	flue gas analyser

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TEST REPORT

Table No. 14

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasankere, 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	: 17.06.2025
Date of Sample Receipt	: 18.06.2025
Report No	: N001625064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	32
3	Stack Temperature ($^{\circ}\text{C}$)	162
4	Velocity (m/s)	8.86
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)	331086
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	15.07.2025

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	42.32	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	43.56	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	55.32	500	IS: 11255(Part-7) 2017
4	CO	%	0.53	Max1%	flue gas analyser
5	Oxygen (O_2)	%	6.93	--	flue gas analyser

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TEST REPORT

Table No. 15

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 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	: 14.06.2025
Date of Sample Receipt	: 16.06.2025
Report No	: N000325064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	32
3	Stack Temperature ($^{\circ}\text{C}$)	86
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)	10568
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	15.07.2025

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	43.25	50	IS: 11255(Part-1) 2014

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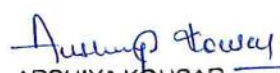
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TEST REPORT

Table No. 16

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 Cutter				
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)				
instrument used for sampling	: Emissions collected through stack sampler				
Date of Collection	: 14.06.2025				
Date of Sample Receipt	: 16.06.2025				
Report No	: N000425064				
Issue date	: 25.06.2025				
STACK DETAILS					
1	Fuel Used	-			
2	Ambient Temperature (°C)	30			
3	Stack Temperature (°C)	80			
4	Velocity (m/s)	7.50			
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)	7969			
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	15.07.2025			
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	30.21	50	IS: 11255(Part-1) 2014


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TEST REPORT

Table No. 17

Stack Monitoring Report

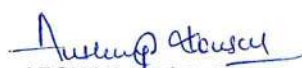
Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Screening & Store
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 14.06.2025
Date of Sample Receipt	: 16.06.2025
Report No	: N000525064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	31
3	Stack Temperature ($^{\circ}\text{C}$)	65
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)	7595
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	15.07.2025

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	33.32	50	IS: 11255(Part-1) 2014


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TEST REPORT

Table No. 18

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 ,
Stack ID	: DG Set 750 KVA (Coke Oven)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 14.06.2025
Date of Sample Receipt	: 16.06.2025
Report No	: N000625064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	30
3	Stack Temperature (°C)	210
4	Velocity (m/s)	8.87
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1965
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	338 DTH 14
11	Calibration due date	15.07.2025
12	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.079	<0.2
2	CO	g/Kw-hr	0.170	<3.5
3	NOx +HC	g/Kw-hr	0.360	<4.0

INFERENCE	As per KSPCB
	Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards

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TEST REPORT

Table No. 19

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 ,			
Stack ID	: DG Set 250 KVA at VHT-2			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Instrument used for sampling	: Emissions collected through stack sampler			
Date of Collection	: 16.06.2025			
Date of Sample Receipt	: 17.06.2025			
Report No	: N001125064			
Issue date	: 25.06.2025			
STACK DETAILS				
1	Fuel Used	Diesel		
2	Ambient Temperature (°C)	28		
3	Stack Temperature (°C)	175		
4	Velocity (m/s)	11.54		
5	Stack Height (M)	5.0		
6	Stack diameter (M)	0.20		
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	951		
8	Sample Condition When Received	Satisfactory		
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1		
10	Serial No. of the Equipment	338 DTH 14		
11	Calibration due date	15.07.2025		
12	Test Method	IS 11255 & flue gas analyser		
Pollutional Parameters (Result)				
Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.122	<0.2
2	CO	g/Kw-hr	0.260	<3.5
3	NOx +HC	g/Kw-hr	0.270	<4.0

INFERENCE	As per KSPCB
	Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards


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ENVIRONMENTAL LABORATORY

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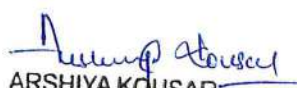
TEST REPORT

Table No. 20

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 ,			
Stack ID	: DG Set 250 KVA at New baghouse			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Instrument used for sampling	: Emissions collected through stack sampler			
Date of Collection	: 16.06.2025			
Date of Sample Receipt	: 17.06.2025			
Report No	: N001225064			
Issue date	: 25.06.2025			
STACK DETAILS				
1	Fuel Used	Diesel		
2	Ambient Temperature (°C)	30		
3	Stack Temperature (°C)	225		
4	Velocity (m/s)	15.17		
5	Stack Height (M)	5.0		
6	Stack diameter (M)	0.20		
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1142		
8	Sample Condition When Received	Satisfactory		
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1		
10	Serial No. of the Equipment	86 DTF 12		
11	Calibration due date	15.07.2025		
12	Test Method	IS 11255 & flue gas analyser		
Pollutional Parameters (Result)				
Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.101	<0.2
2	CO	g/Kw-hr	0.270	<3.5
3	NOx +HC	g/Kw-hr	0.240	<4.0

INFERENCE	as per KSPCB
	Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards


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TEST REPORT

Table No. 21

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 ,
Stack ID	: DG Set 625 KVA (Power Plant)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 16.06.2025
Date of Sample Receipt	: 17.06.2025
Report No	: N001325064
Issue date	: 25.06.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	438
4	Velocity (m/s)	19.74
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	1981
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	86 DTF 12
11	Calibration due date	15.07.2025
12	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.092	<0.2
2	CO	g/Kw-hr	0.290	<3.5
3	NOx +HC	g/Kw-hr	0.260	<4.0

INFERENCE	as per KSPCB
	Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards

Arshiya Kousar
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TEST REPORT

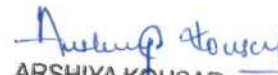
Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vyasanakere village, Hosapete Taluk, Ballari District, Karnataka
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 13.06.2025
Date of sample receipt	: 14.06.2025
Report No	: M002625063
Issue Date	: 23.06.2025

Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.60	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27 ⁰ C	mg/l	1.6	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	48	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105 ⁰ C	mg/l	16	<20	IS 3025 (P-16)1984 RA 2017
5	Ammonium (H4-N)	mg/l	35	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	7.5	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	16	<100	APHA 24 th Edition


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Latitude: 15°11'39"
Longitude: 76°22'45"
Elevation: 561.95±6.6 m
Accuracy: 3.2 m
Time: 13-06-2025 14:42
Note: STP Treated water (Smiore plant).

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