

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/2024-25/077

09th January 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: Submission of monthly environmental monitoring report for the month of **December-2024**.

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

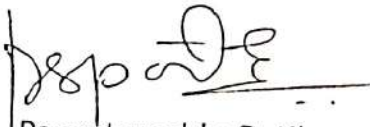
Dear Sir,

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 December-2024 for your kind perusal.

Kindly acknowledge receipt of the same.

Thanking you,

For The Sandur Manganese & Iron Ores Limited,



Parvatareddy Patil
Senior General Manager-Plant



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ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ

ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ

ಮಂಜು/ದಿನಾಂಕ: 10/1/25 ಸಹಿ

Encl: Environmental Monitoring Report **December-2024**

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

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

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

ENVIRONMENTAL MONITORING REPORT

December, 2024

Project : The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village,
Hospet Taluk,

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services)

(Accredited by NABL &, MOEF&CC Under E(P) 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)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory
Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT AMBIENT AIR QUALITY

Table No. 1

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Station at & Code : A1, Near Existing AAQMS 01 (SMIORE Schools)							
Instrument Used : Envirotech APM 460BL Serial No. 2914-DTJ-2020 Envirotech APM -550, Serial No. 520-DTG-2017							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.01.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	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
06.12.2024	N/24/12/3-0105	10	13	54	30	<20	<1
07.12.2024	N/24/12/3-0195	12	18	58	32	<20	<1
09.12.2024	N/24/12/4-0016	7	13	50	27	<20	<1
10.12.2024	N/24/12/4-0073	6	9	47	28	<20	<1
20.12.2024	N/24/12/5-0152	6	9	51	28	<20	<1
21.12.2024	N/24/12/5-0231	9	11	49	26	<20	<1
23.12.2024	N/24/12/6-0033	11	16	51	28	<20	<1
24.12.2024	N/24/12/6-0095	10	17	55	30	<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	Lab Code	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
06.12.2024	N/24/12/3-0105	0.15	<0.1	<0.5	<0.5	0.22	22
07.12.2024	N/24/12/3-0195	0.19	<0.1	<0.5	<0.5	0.42	25
09.12.2024	N/24/12/4-0016	0.13	<0.1	<0.5	<0.5	0.35	28
10.12.2024	N/24/12/4-0073	0.17	<0.1	<0.5	<0.5	0.21	24
20.12.2024	N/24/12/5-0152	0.17	<0.1	<0.5	<0.5	0.32	23
21.12.2024	N/24/12/5-0231	0.22	<0.1	<0.5	<0.5	0.23	26
23.12.2024	N/24/12/6-0033	0.19	<0.1	<0.5	<0.5	0.45	22
24.12.2024	N/24/12/6-0095	0.25	<0.1	<0.5	<0.5	0.35	29
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

Arushi Kousar
ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 2

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Station at & Code : A2, Existing Water Reservoir (Near WTP Plant)							
Instrument Used : Envirotech APM 460BL Serial No. 2913-DTJ-2020 Envirotech APM -550, Serial No. 89 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.01.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	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
06.12.2024	N/24/12/3-0106	11	15	50	28	<20	<1
07.12.2024	N/24/12/3-0196	9	13	45	25	<20	<1
09.12.2024	N/24/12/4-0017	10	10	52	29	<20	<1
10.12.2024	N/24/12/4-0074	7	12	48	27	<20	<1
20.12.2024	N/24/12/5-0153	11	15	56	32	<20	<1
21.12.2024	N/24/12/5-0232	9	10	51	28	<20	<1
23.12.2024	N/24/12/6-0034	7	9	42	23	<20	<1
24.12.2024	N/24/12/6-0096	11	14	48	25	<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	Lab Code	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
06.12.2024	N/24/12/3-0106	0.10	<0.1	<0.5	<0.5	0.25	26
07.12.2024	N/24/12/3-0196	0.10	<0.1	<0.5	<0.5	0.21	25
09.12.2024	N/24/12/4-0017	0.26	<0.1	<0.5	<0.5	0.48	27
10.12.2024	N/24/12/4-0074	0.18	<0.1	<0.5	<0.5	0.35	30
20.12.2024	N/24/12/5-0153	0.22	<0.1	<0.5	<0.5	0.38	21
21.12.2024	N/24/12/5-0232	0.15	<0.1	<0.5	<0.5	0.23	28
23.12.2024	N/24/12/6-0034	0.10	<0.1	<0.5	<0.5	0.30	25
24.12.2024	N/24/12/6-0096	0.19	<0.1	<0.5	<0.5	0.27	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

Arushi Kousar
ARSHIYA KOUSAR
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Govt. Analyst / Authorised Signatory

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TEST REPORT AMBIENT AIR QUALITY

Table No. 3

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Station at & Code : A3, Galemmanagudi							
Instrument Used : Envirotech APM 460BL Serial No. 2905-DTJ-2020 Envirotech APM -550, Serial No.86 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.01.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	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
06.12.2024	N/24/12/3-0107	12	18	54	29	<20	<1
07.12.2024	N/24/12/3-0197	7	13	44	26	<20	<1
09.12.2024	N/24/12/4-0018	11	16	50	28	<20	<1
10.12.2024	N/24/12/4-0075	9	12	57	30	<20	<1
20.12.2024	N/24/12/5-0154	10	11	53	27	<20	<1
21.12.2024	N/24/12/5-0233	11	14	45	22	<20	<1
23.12.2024	N/24/12/6-0035	9	10	41	21	<20	<1
24.12.2024	N/24/12/6-0097	10	12	49	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	Lab Code	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
06.12.2024	N/24/12/3-0107	0.22	<0.1	<0.5	<0.5	0.27	25
07.12.2024	N/24/12/3-0197	0.10	<0.1	<0.5	<0.5	0.23	27
09.12.2024	N/24/12/4-0018	0.10	<0.1	<0.5	<0.5	0.23	24
10.12.2024	N/24/12/4-0075	0.17	<0.1	<0.5	<0.5	0.25	20
20.12.2024	N/24/12/5-0154	0.11	<0.1	<0.5	<0.5	0.26	25
21.12.2024	N/24/12/5-0233	0.15	<0.1	<0.5	<0.5	0.32	21
23.12.2024	N/24/12/6-0035	0.13	<0.1	<0.5	<0.5	0.25	20
24.12.2024	N/24/12/6-0097	0.25	<0.1	<0.5	<0.5	0.29	23
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

Arushi Kousar
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TEST REPORT AMBIENT AIR QUALITY

Table No. 4

Name and Address of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)							
Station at & Code : A4, Near Plant Railway Siding							
Instrument Used : Envirotech APM 460BL Serial No. 2216-DTI-2017 Envirotech APM -550, Serial No. 87 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.01.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	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
06.12.2024	N/24/12/3-0108	7	9	39	21	<20	<1
07.12.2024	N/24/12/3-0198	9	10	55	27	<20	<1
09.12.2024	N/24/12/4-0019	8	12	45	25	<20	<1
10.12.2024	N/24/12/4-0076	9	10	54	27	<20	<1
20.12.2024	N/24/12/5-0155	10	14	51	25	<20	<1
21.12.2024	N/24/12/5-0234	11	13	57	28	<20	<1
23.12.2024	N/24/12/6-0036	9	12	55	29	<20	<1
24.12.2024	N/24/12/6-0098	12	16	50	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	Lab Code	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
06.12.2024	N/24/12/3-0108	0.11	<0.1	<0.5	<0.5	0.29	21
07.12.2024	N/24/12/3-0198	0.21	<0.1	<0.5	<0.5	0.21	25
09.12.2024	N/24/12/4-0019	0.22	<0.1	<0.5	<0.5	0.35	21
10.12.2024	N/24/12/4-0076	0.13	<0.1	<0.5	<0.5	0.21	20
20.12.2024	N/24/12/5-0155	0.22	<0.1	<0.5	<0.5	0.34	24
21.12.2024	N/24/12/5-0234	0.15	<0.1	<0.5	<0.5	0.27	22
23.12.2024	N/24/12/6-0036	0.21	<0.1	<0.5	<0.5	0.42	28
24.12.2024	N/24/12/6-0098	0.12	<0.1	<0.5	<0.5	0.33	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

Arshiya Kousar
ARSHIYA KOUSAR
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TEST REPORT

Table No. 5

Analysis Report of Fugitive Emission

Report No.N002024124

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.,
(Metal & Ferro Alloys Plant),
Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Station at & Code : Near Battery Area (Coke Oven)

Duration : 08 Hrs

Issue date : 02.01.2025

Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
09.12.2024	N/24/12/4-0020	11	16	256	0.21	0.38	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10	2
		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr	8 Hrs

Note : * Parameters monitored for period of 1 hr

Arushi Kousar
ARSHIYA KOUSAR
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TEST REPORT

Table No. 6

Analysis Report of Fugitive Emission

Report No. N002124124

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.,
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)
Station at & Code : Coal Storage area (Coke Oven)
Duration : 08 Hrs
Issue date : 02.01.2025
Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
09.12.2024	N/24/12/4-0021	12	18	276	0.19	0.28	<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

Arshiya Kousar
ARSHIYA KOUSAR
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TEST REPORT

Table No. 7

Analysis Report of Fugitive Emission

Report No.N019924123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.,
(Metal & Ferro Alloys Plant),
Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Station at & Code : Finished goods yard in between F3 & F5 (M&FA)

Duration : 08 Hrs

Issue date : 02.01.2025

Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
07.12.2024	N/24/12/3-0199	11	14	238	0.21	0.33
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10
		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

Report No.N020024123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.,
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Station at & Code : Raw martial storage area (M&FA)

Duration : 08 Hrs

Issue date : 02.01.2025

Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
07.12.2024	N/24/12/3-0200	10	12	225	0.25	0.41
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10
		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

Stack Monitoring Report

Report No. N027124123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), 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)
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Collection	: 07.12.2024
Date of Sample Receipt	: 09.12.2024
Lab Code	: N/24/12/3-0271
Issue date	: 23.12.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	128
4	Velocity (m/s)	6.04
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)	73878
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 done on and due on	Done on 19.11.2022 and Due on 18.11.2024

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	32.58	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2)	mg/Nm^3	16.32	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	22.18	--	IS: 11255(Part-7) 2017
4	CO	%	0.36	--	flue gas analyser
5	Oxygen (O_2)	%	15.85	--	flue gas analyser

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TEST REPORT

Table No. 10

Stack Monitoring Report

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -01
Remarks - Shutdown	

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -02
Remarks - Shutdown	

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coal Crushing
Remarks - Shutdown	

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
Remarks - Shutdown	

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Screening & Store
Remarks - Shutdown	

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TEST REPORT

Table No. 11

Stack Monitoring Report

Report No. : N035424123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Stack ID	: DG Set 750 KVA (Coke Oven)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection	: 09.12.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 11.12.2024
Lab Code	: N/24/12/3-0354
Issue date	: 23.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	192
4	Velocity (m/s)	9.04
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	2002
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 done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.032	<0.2
2	CO	g/Kw-hr	0.15	<3.5
3	Nox +HC	g/Kw-hr	0.29	<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. 12

Stack Monitoring Report

Report No. : N035524123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), 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)
Date of Collection	: 09.12.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 11.12.2024
Lab Code	: N/24/12/3-0355
Issue date	: 23.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	163
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 done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.10	<0.2
2	CO	g/Kw-hr	0.23	<3.5
3	Nox +HC	g/Kw-hr	0.21	<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. 13

Stack Monitoring Report

Report No. : N035624123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, 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)
Date of Collection	: 10.12.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 11.12.2024
Lab Code	: N/24/12/3-0356
Issue date	: 23.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	220
4	Velocity (m/s)	15.31
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1153
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 done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.13	<0.2
2	CO	g/Kw-hr	0.32	<3.5
3	Nox +HC	g/Kw-hr	0.27	<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. 14

Stack Monitoring Report

Report No. : N035724123

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Stack ID	: DG Set 625 KVA (Power Plant)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Date of Collection	: 10.12.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 10.12.2024
Lab Code	: N/24/12/3-0357
Issue date	: 23.12.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	436
4	Velocity (m/s)	19.96
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	2009
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 done on and due on	Done on 19.11.2022 and Due on 18.11.2024
13	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.11	<0.2
2	CO	g/Kw-hr	0.29	<3.5
3	Nox +HC	g/Kw-hr	0.26	<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. 15

AMBIENT NOISE LEVEL DATA

Report No. ELMES052412

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,

Particulars of Sample Collected : Ambient Noise Level collected through Sound Level Meter (HTC SL-1352 Data Logger)

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Date of sample collection : 06.12.2024

Date of sample receipt : 09.12.2024

Issue Date : 23.12.2024

Sampling & Test Method : IS:9989

Code No.	Monitoring stations	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)	42.0	65.1	75.0	34.0	46.4	53.2												
N2	Existing Water Reservoir (Near WTP Plant)	39.2	49.9	58.4	34.0	44.4	49.5												
Buffer zone																			
N3	Galemmanagudi	36.0	50.4	58.2	34.2	42.5	46.5												
N4	Vysanakere Village	39.0	50.5	57.6	36.0	45.0	48.6												
N5	Hanumanhalli	40.0	53.2	59.0	33.5	43.1	48.5												
<u>Permissible Limits of Ambient</u> <u>Noise Levels as per CPCB Guidelines</u> <u>Leq. Limit dB(A)</u> <table><tr><td></td><td>Day</td><td>Night</td></tr><tr><td>Industrial areas</td><td>75</td><td>70</td></tr><tr><td>Commercial area</td><td>65</td><td>55</td></tr><tr><td>Residential area</td><td>55</td><td>45</td></tr></table>									Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Day	Night																	
Industrial areas	75	70																	
Commercial area	65	55																	
Residential area	55	45																	

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TEST REPORT

Table No. 16

FUGITIVE NOISE LEVEL DATA

Report No. ELMES062412

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,

Particulars of Sample Collected : DG Noise Level collected through Sound Level Meter (HTC SL-1352 Data Logger)

Sample Collected by : Environmental Laboratory
(Unit of Mineral Engineering Services)

Date of sample collection : 09.12.2024

Date of sample receipt : 11.12.2024

Issue Date : 23.12.2024

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	73.7	75.0
N2	Stack Attached to 250 KVA at VHT-2		72.1	
N3	Stack Attached to 250 KVA at New Baghouse		69.3	
N4	Stack Attached to 625 KVA (Power Plant)		73.2	

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 "decibel" 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

Report No : N027024123

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
 Particulars of sample collected : 50 KLD STP Water
 Date of sample collection : 07.12.2024
 Lab Code : N/24/12/3-0270
 Issue Date : 27.12.2024

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

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.56	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27 ⁰ C	mg/l	8.5	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	40	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105 ⁰ C	mg/l	12	<20	IS 3025 (P-16)1984 RA 2017
5	Ammonium (H4-N)	mg/l	0.3	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	7.2	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	<1.8	<100	IS:15185 :2016 RA 2021

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