

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
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Sandur - 583 119, Ballari District
Karnataka, India
Tel: +91 8395 260301/ 283173-199
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CORPORATE OFFICE

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Ref No: SMIORE/PLANT/ENV/MR/2024-25/ 36

10th July 2024

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 June 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 June -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

Encl: Environmental Monitoring Report June -2024

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 10/07/2024

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

June, 2024

**Project : The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vysanakere, 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

Table No. 1

AMBIENT AIR QUALITY

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 : A1, Near Existing AAQMS 01 (SMIORE Schools)

Duration : 24 Hrs

Issue date : 01.07.2024

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
07.06.2024	N/24/06/2-0114	7	9	38	19	<20	<1
08.06.2024	N/24/06/3-0024	8	12	41	22	<20	<1
10.06.2024	N/24/06/4-0012	7	9	40	21	<20	<1
11.06.2024	N/24/06/4-0070	12	14	49	24	<20	<1
21.06.2024	N/24/06/5-0129	7	9	56	28	<20	<1
22.06.2024	N/24/06/5-0216	11	12	47	25	<20	<1
24.06.2024	N/24/06/5-0340	9	12	52	28	<20	<1
25.06.2024	N/24/06/5-0451	8	10	48	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
07.06.2024	N/24/06/2-0114	0.18	<0.1	<0.5	<0.5	0.26	23
08.06.2024	N/24/06/3-0024	0.28	<0.1	<0.5	<0.5	0.38	27
10.06.2024	N/24/06/4-0012	0.16	<0.1	<0.5	<0.5	0.41	26
11.06.2024	N/24/06/4-0070	0.28	<0.1	<0.5	<0.5	0.48	25
21.06.2024	N/24/06/5-0129	0.11	<0.1	<0.5	<0.5	0.38	24
22.06.2024	N/24/06/5-0216	0.19	<0.1	<0.5	<0.5	0.26	25
24.06.2024	N/24/06/5-0340	0.24	<0.1	<0.5	<0.5	0.33	29
25.06.2024	N/24/06/5-0451	0.22	<0.1	<0.5	<0.5	0.26	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
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 2

AMBIENT AIR QUALITY

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasankere, 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)							
Duration : 24 Hrs							
Issue date : 01.07.2024							
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
07.06.2024	N/24/06/2-0115	10	13	46	27	<20	<1
08.06.2024	N/24/06/3-0025	7	10	48	25	<20	<1
10.06.2024	N/24/06/4-0013	11	13	45	24	<20	<1
11.06.2024	N/24/06/4-0071	8	17	51	27	<20	<1
21.06.2024	N/24/06/5-0130	11	15	58	33	<20	<1
22.06.2024	N/24/06/5-0217	7	12	38	21	<20	<1
24.06.2024	N/24/06/5-0341	10	14	43	26	<20	<1
25.06.2024	N/24/06/5-0452	8	13	52	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
07.06.2024	N/24/06/2-0115	0.19	<0.1	<0.5	<0.5	0.33	23
08.06.2024	N/24/06/3-0025	0.24	<0.1	<0.5	<0.5	0.26	26
10.06.2024	N/24/06/4-0013	0.11	<0.1	<0.5	<0.5	0.45	26
11.06.2024	N/24/06/4-0071	0.16	<0.1	<0.5	<0.5	0.35	21
21.06.2024	N/24/06/5-0130	0.29	<0.1	<0.5	<0.5	0.28	25
22.06.2024	N/24/06/5-0217	0.22	<0.1	<0.5	<0.5	0.42	28
24.06.2024	N/24/06/5-0341	0.13	<0.1	<0.5	<0.5	0.36	22
25.06.2024	N/24/06/5-0452	0.18	<0.1	<0.5	<0.5	0.24	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

Table No. 3

AMBIENT AIR QUALITY

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							
Duration : 24 Hrs							
Issue date : 01.07.2024							
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
07.06.2024	N/24/06/2-0116	10	15	35	20	<20	<1
08.06.2024	N/24/06/3-0026	11	14	38	15	<20	<1
10.06.2024	N/24/06/4-0014	9	12	54	32	<20	<1
11.06.2024	N/24/06/4-0072	7	12	47	24	<20	<1
21.06.2024	N/24/06/5-0131	12	14	52	29	<20	<1
22.06.2024	N/24/06/5-0218	6	9	55	27	<20	<1
24.06.2024	N/24/06/5-0342	11	14	43	26	<20	<1
25.06.2024	N/24/06/5-0453	7	16	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
07.06.2024	N/24/06/2-0116	0.14	<0.1	<0.5	<0.5	0.33	28
08.06.2024	N/24/06/3-0026	0.13	<0.1	<0.5	<0.5	0.28	22
10.06.2024	N/24/06/4-0014	0.26	<0.1	<0.5	<0.5	0.39	27
11.06.2024	N/24/06/4-0072	0.19	<0.1	<0.5	<0.5	0.41	26
21.06.2024	N/24/06/5-0131	0.11	<0.1	<0.5	<0.5	0.39	21
22.06.2024	N/24/06/5-0218	0.15	<0.1	<0.5	<0.5	0.24	23
24.06.2024	N/24/06/5-0342	0.26	<0.1	<0.5	<0.5	0.28	21
25.06.2024	N/24/06/5-0453	0.30	<0.1	<0.5	<0.5	0.38	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							

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

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							
Duration : 24 Hrs							
Issue date : 01.07.2024							
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
07.06.2024	N/24/06/2-0117	12	13	48	25	<20	<1
08.06.2024	N/24/06/3-0027	6	9	45	26	<20	<1
10.06.2024	N/24/06/4-0015	12	16	48	32	<20	<1
11.06.2024	N/24/06/4-0073	10	13	39	23	<20	<1
21.06.2024	N/24/06/5-0132	8	14	54	24	<20	<1
22.06.2024	N/24/06/5-0219	11	14	36	21	<20	<1
24.06.2024	N/24/06/5-0343	7	11	41	25	<20	<1
25.06.2024	N/24/06/5-0454	10	15	53	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
07.06.2024	N/24/06/2-0117	0.17	<0.1	<0.5	<0.5	0.27	20
08.06.2024	N/24/06/3-0027	0.22	<0.1	<0.5	<0.5	0.26	28
10.06.2024	N/24/06/4-0015	0.16	<0.1	<0.5	<0.5	0.38	23
11.06.2024	N/24/06/4-0073	0.14	<0.1	<0.5	<0.5	0.37	20
21.06.2024	N/24/06/5-0132	0.18	<0.1	<0.5	<0.5	0.41	<20
22.06.2024	N/24/06/5-0219	0.11	<0.1	<0.5	<0.5	0.29	24
24.06.2024	N/24/06/5-0343	0.13	<0.1	<0.5	<0.5	0.20	20
25.06.2024	N/24/06/5-0454	0.15	<0.1	<0.5	<0.5	0.22	21
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

Report No.N013324065

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 Representative							
Station at & Code : Near Battery Area (Coke Oven)							
Duration : 08 Hrs							
Issue date : 01.07.2024							
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
21.06.2024	N/24/06/5-0133	12	18	324	0.16	0.45	<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							

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TEST REPORT

Table No. 6

Analysis Report of Fugitive Emission

Report No.N013424065

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 Representative							
Station at & Code : Coal Storage area (Coke Oven)							
Duration : 08 Hrs							
Issue date : 01.07.2024							
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
21.06.2024	N/24/06/5-0134	10	14	487	0.28	0.42	<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. 7

Analysis Report of Fugitive Emission

Report No.N022024065

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 Representaive						
Station at & Code : Finished goods yard in between F3 & F5 (M&FA)						
Duration : 08 Hrs						
Issue date : 01.07.2024						
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
22.06.2024	N/24/06/5-0220	11	13	425	0.27	0.46
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
Note : * Parameters monitored for period of 1 hr						

Arshiya Kousar
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Dy. T.M. - Chemical

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TEST REPORT

Table No. 8

Analysis Report of Fugitive Emission

Report No.N022124065

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 Representative						
Station at & Code : Raw martial storage area (M&FA)						
Duration : 08 Hrs						
Issue date : 01.07.2024						
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
22.06.2024	N/24/06/5-0221	7	9	385	0.33	0.38
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
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. 9

Stack Monitoring Report

Report No. N013524065

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	: 21.06.2024
Date of Sample Receipt	: 22.06.2024
Lab Code	: N/24/06/5-0135
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	33
3	Stack Temperature ($^{\circ}$ C)	124
4	Velocity (m/s)	8.03
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m^2)	96052
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	96774
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	30.55	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2).	mg/ Nm^3	20.11	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	24.21	--	IS: 11255(Part-7) 2017
4	CO	%	0.31	--	flue gas analyser
5	Oxygen (O_2)	%	15.88	--	flue gas analyser

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TEST REPORT

Table No. 10

Stack Monitoring Report

Report No. N013624065

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	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -01
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	: 21.06.2024
Date of Sample Receipt	: 22.06.2024
Lab Code	: N/24/06/5-0136
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	33
3	Stack Temperature ($^{\circ}$ C)	250
4	Velocity (m/s)	9.5
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)	274120
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	30.22	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	60.21	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	556.85	500	IS: 11255(Part-7) 2017
4	CO	%	0.52	Max1%	flue gas analyser
5	Oxygen (O_2)	%	9.12	-	flue gas analyser

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TEST REPORT

Table No. 11

Stack Monitoring Report

Report No. N013724065

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	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -02
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	: 21.06.2024
Date of Sample Receipt	: 22.06.2024
Lab Code	: N/24/06/5-0137
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	33
3	Stack Temperature ($^{\circ}\text{C}$)	240
4	Velocity (m/s)	8.83
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)	278500
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	26.24	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	60.25	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	73.25	500	IS: 11255(Part-7) 2017
4	CO	%	0.41	Max1%	flue gas analyser
5	Oxygen (O_2)	%	7.21	--	flue gas analyser

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TEST REPORT

Table No. 12

Stack Monitoring Report

Report No. N022224065

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	: Coke Oven Plant
Stack ID	: Stack Attached to Coal Crushing
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	: 22.06.2024
Date of Sample Receipt	: 24.06.2024
Lab Code	: N/24/06/5-0222
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	32
3	Stack Temperature ($^{\circ}$ C)	74
4	Velocity (m/s)	7.05
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)	9952
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	35.33	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 13

Stack Monitoring Report

Report No. N022324065

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	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
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	: 22.06.2024
Date of Sample Receipt	: 24.06.2024
Lab Code	: N/24/06/5-0223
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	32
3	Stack Temperature ($^{\circ}\text{C}$)	72
4	Velocity (m/s)	6.66
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)	7241
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	32.65	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 14

Stack Monitoring Report

Report No. N022424065

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	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Screening & Store
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	: 22.06.2024
Date of Sample Receipt	: 24.06.2024
Lab Code	: N/24/06/5-0224
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	32
3	Stack Temperature ($^{\circ}\text{C}$)	73
4	Velocity (m/s)	9.13
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)	6737
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	38.97	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 15

Stack Monitoring Report

Report No : N027724065

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 Representative
Date of Collection	: 24.06.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 25.06.2024
Lab Code	: N/24/06/5-0277
Issue date	: 01.07.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}$ C)	33
3	Stack Temperature ($^{\circ}$ C)	188
4	Velocity (m/s)	9.12
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	2023
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	0.080	<0.2
2	CO	g/Kw-hr	0.38	<3.5
3	Nox +HC	g/Kw-hr	0.42	<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. 16

Stack Monitoring Report

Report No. : N027824065

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 Representative
Date of Collection	: 24.06.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 25.06.2024
Lab Code	: N/24/06/5-0278
Issue date	: 01.07.2024

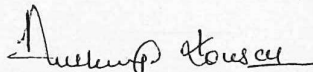
STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	33
3	Stack Temperature (°C)	161
4	Velocity (m/s)	11.90
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	980
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	0.06	<0.2
2	CO	g/Kw-hr	0.23	<3.5
3	Nox +HC	g/Kw-hr	0.18	<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. 17

Stack Monitoring Report

Report No. : N029924065

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 Representative
Date of Collection	: 25.06.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 27.06.2024
Lab Code	: N/24/06/5-0299
Issue date	: 01.07.2024

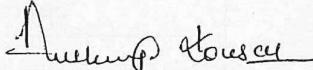
STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	33
3	Stack Temperature (°C)	230
4	Velocity (m/s)	15.82
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1192
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	0.09	<0.2
2	CO	g/Kw-hr	0.32	<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. 18

Stack Monitoring Report

Report No. : N030024065

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 Representative
Date of Collection : 25.06.2024
Particulars of Sample Collected : Emissions from stack collected through stack sample VSS1
Date of Sample Receipt : 27.06.2024
Lab Code : N/24/06/5-0300
Issue date : 01.07.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	33
3	Stack Temperature (°C)	415
4	Velocity (m/s)	19.59
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	2032
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	0.08	<0.2
2	CO	g/Kw-hr	0.25	<3.5
3	Nox +HC	g/Kw-hr	0.23	<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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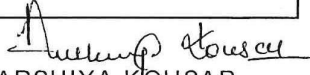
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TEST REPORT

Table No. 19

AMBIENT NOISE LEVEL DATA

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.							
(Metal & Ferro Alloys Plant),							
Vysanakere, 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 : 21.06.2024							
Date of sample receipt : 22.06.2024							
Issue Date : 01.07.2024							
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)	36.5	55.4	63.2	34.0	43.2	50.1
N2	Existing Water Reservoir (Near WTP Plant)	38.0	52.7	58.1	34.8	44.0	48.3
Buffer zone							
N3	Galemmanagudi	39.0	51.7	58.2	35.0	43.5	46.8
N4	Vysanakere Village	37.0	50.7	55.8	34.0	45.0	48.0
N5	Hanumanhalli	39.6	52.5	57.0	34.0	43.4	47.5
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines							
Leq. Limit dB(A)							
		Day		Night			
Industrial areas		75		70			
Commercial area		65		55			
Residential area		55		45			


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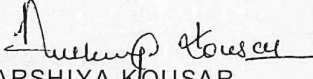
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Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

Table No. 20

FUGITIVE NOISE LEVEL DATA

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 : Work zone Noise Level collected through Sound Level Meter (HTC SL-1352 Data Logger)					
Sample Collected by : Environmental Laboratory Representative					
Date of sample collection : 24.06.2024					
Date of sample receipt : 25.06.2024					
Issue Date : 01.07.2024					
Code No.	Monitoring stations	Day			Remarks
		L _{min}	L _{eq}	L _{max}	
Corezone					
1	ARC Furnace -3 area	41.0	57.6	66.3	During operation
2	ARC Furnace -5 area	37.0	61.2	71.0	During operation
3	Near WHRB -1	38.6	53.0	58.0	During operation
4	Near WHRB -2	41.0	54.0	62.3	During operation
5	Near Power plant turbine	36.0	52.5	57.0	During shut down
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)					
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines					
Leq. Limit dB(A)					
Day Night					
Industrial areas 75 70					
Commercial area 65 55					
Residential area 55 45					


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TEST REPORT

Table No. 21

FUGITIVE NOISE LEVEL DATA

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vysanakere, 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		: Mineral Engineering Services		
Date of sample collection		: 19.12.2023		
Date of sample receipt		: 20.12.2023		
Issue Date		: 02.01.2024		
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	73.1	75.0
N2	Stack Attached to 250 KVA at VHT-2		67.5	
N3	Stack Attached to 250 KVA at New Baghouse		63.4	
N4	Stack Attached to 625 KVA (Power Plant)		71.1	
Note				
<ul style="list-style-type: none"> • 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

Report No : N019324065

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	: 22.06.2024
Lab Code	: N/24/06/5-0193
Issue Date	: 29.06.2024

Sl. No.	Parameters	units	Results	Sewage Effluent Discharge Standards	Method of Testing
1	pH	-	6.95	6.0 to 8.5	IS 3025 (P-11)2017
3	Total Suspended Solids, at 105 ^o C	mg/l	10	100	IS 3025 (P-16)1984 RA 2017
2	Biochemical Oxygen Demand BOD ₅ 27 ^o C	mg/l	18	30	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	46	250	IS 3025 (P-58) 2006 RA 2017
4	Total Kjeldahl Nitrogen,	mg/l	4.2	-	IS 3025 (Part-34)
5	Fecal coliform	MPN/100ml	<1.8	<1000	IS:15185 :2016 RA 2021

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