

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

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Tel: +91 80 4152 0176 - 79 / 4547 3000
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Ref No: SMIORE/PLANT/ENV/MR/2024-25/ 42

06th August 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 July 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 July -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 July -2024

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 6/8/24 ಸಹಿ

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

July, 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

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 : 01.08.2024

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
05.07.2024	N/24/07/1-0221	9	10	56	32	<20	<1
06.07.2024	N/24/07/2-0003	7	11	50	27	<20	<1
08.07.2024	N/24/07/03-0016	6	9	37	19	<20	<1
09.07.2024	N/24/07/03-0057	11	12	45	24	<20	<1
19.07.2024	N/24/07/4-0180	7	9	54	27	<20	<1
20.07.2024	N/24/07/4-0239	9	11	39	18	<20	<1
22.07.2024	N/24/07/5-0010	7	9	42	22	<20	<1
23.07.2024	N/24/07/5-0061	10	12	46	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
05.07.2024	N/24/07/1-0221	0.15	<0.1	<0.5	<0.5	0.27	20
06.07.2024	N/24/07/2-0003	0.16	<0.1	<0.5	<0.5	0.25	21
08.07.2024	N/24/07/03-0016	0.18	<0.1	<0.5	<0.5	0.28	20
09.07.2024	N/24/07/03-0057	0.16	<0.1	<0.5	<0.5	0.26	21
19.07.2024	N/24/07/4-0180	0.22	<0.1	<0.5	<0.5	0.27	20
20.07.2024	N/24/07/4-0239	0.11	<0.1	<0.5	<0.5	0.31	22
22.07.2024	N/24/07/5-0010	0.19	<0.1	<0.5	<0.5	0.26	24
23.07.2024	N/24/07/5-0061	0.11	<0.1	<0.5	<0.5	0.29	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 : 01.08.2024

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
05.07.2024	N/24/07/1-0222	9	10	36	20	<20	<1
06.07.2024	N/24/07/2-0004	11	13	51	27	<20	<1
08.07.2024	N/24/07/03-0017	7	9	54	29	<20	<1
09.07.2024	N/24/07/03-0058	7	10	43	25	<20	<1
19.07.2024	N/24/07/4-0181	10	12	58	32	<20	<1
20.07.2024	N/24/07/4-0240	5	9	47	26	<20	<1
22.07.2024	N/24/07/5-0011	7	8	50	29	<20	<1
23.07.2024	N/24/07/5-0062	9	11	53	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
05.07.2024	N/24/07/1-0222	0.13	<0.1	<0.5	<0.5	0.27	30
06.07.2024	N/24/07/2-0004	0.15	<0.1	<0.5	<0.5	0.35	26
08.07.2024	N/24/07/03-0017	0.21	<0.1	<0.5	<0.5	0.28	28
09.07.2024	N/24/07/03-0058	0.13	<0.1	<0.5	<0.5	0.22	21
19.07.2024	N/24/07/4-0181	0.15	<0.1	<0.5	<0.5	0.26	31
20.07.2024	N/24/07/4-0240	0.23	<0.1	<0.5	<0.5	0.35	20
22.07.2024	N/24/07/5-0011	0.25	<0.1	<0.5	<0.5	0.31	27
23.07.2024	N/24/07/5-0062	0.21	<0.1	<0.5	<0.5	0.26	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

Arshiya Kousar
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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),
Vyasnakere, 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 : 01.08.2024

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
05.07.2024	N/24/07/1-0223	12	13	40	22	<20	<1
06.07.2024	N/24/07/2-0005	9	10	46	26	<20	<1
08.07.2024	N/24/07/03-0018	7	11	50	28	<20	<1
09.07.2024	N/24/07/03-0059	6	9	47	27	<20	<1
19.07.2024	N/24/07/4-0182	11	12	53	29	<20	<1
20.07.2024	N/24/07/4-0241	7	9	45	25	<20	<1
22.07.2024	N/24/07/5-0012	9	11	49	28	<20	<1
23.07.2024	N/24/07/5-0063	7	9	52	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
05.07.2024	N/24/07/1-0223	0.14	<0.1	<0.5	<0.5	0.33	25
06.07.2024	N/24/07/2-0005	0.18	<0.1	<0.5	<0.5	0.37	20
08.07.2024	N/24/07/03-0018	0.25	<0.1	<0.5	<0.5	0.41	21
09.07.2024	N/24/07/03-0059	0.19	<0.1	<0.5	<0.5	0.32	24
19.07.2024	N/24/07/4-0182	0.16	<0.1	<0.5	<0.5	0.25	31
20.07.2024	N/24/07/4-0241	0.25	<0.1	<0.5	<0.5	0.27	26
22.07.2024	N/24/07/5-0012	0.17	<0.1	<0.5	<0.5	0.31	22
23.07.2024	N/24/07/5-0063	0.19	<0.1	<0.5	<0.5	0.26	<20
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 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 : 01.08.2024

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
05.07.2024	N/24/07/1-0224	10	12	30	22	<20	<1
06.07.2024	N/24/07/2-0006	9	10	46	24	<20	<1
08.07.2024	N/24/07/03-0019	11	13	52	26	<20	<1
09.07.2024	N/24/07/03-0060	7	9	40	22	<20	<1
19.07.2024	N/24/07/4-0183	7	10	34	19	<20	<1
20.07.2024	N/24/07/4-0242	10	12	48	25	<20	<1
22.07.2024	N/24/07/5-0013	5	9	57	30	<20	<1
23.07.2024	N/24/07/5-0064	7	8	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
05.07.2024	N/24/07/1-0224	0.11	<0.1	<0.5	<0.5	0.31	23
06.07.2024	N/24/07/2-0006	0.13	<0.1	<0.5	<0.5	0.29	25
08.07.2024	N/24/07/03-0019	0.22	<0.1	<0.5	<0.5	0.25	27
09.07.2024	N/24/07/03-0060	0.16	<0.1	<0.5	<0.5	0.23	21
19.07.2024	N/24/07/4-0183	0.13	<0.1	<0.5	<0.5	0.22	31
20.07.2024	N/24/07/4-0242	0.15	<0.1	<0.5	<0.5	0.26	25
22.07.2024	N/24/07/5-0013	0.23	<0.1	<0.5	<0.5	0.35	33
23.07.2024	N/24/07/5-0064	0.25	<0.1	<0.5	<0.5	0.31	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar

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TEST REPORT

Table No. 5

Stack Monitoring Report

Report No. N018424074

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	: 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	: 19.07.2024
Date of Sample Receipt	: 20.07.2024
Lab Code	: N/24/07/4-0184
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	120
4	Velocity (m/s)	7.88
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)	9587
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	27.32	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2)	mg/Nm^3	19.84	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	22.81	--	IS: 11255(Part-7) 2017
4	CO	%	0.28	--	flue gas analyser
5	Oxygen (O_2)	%	16.31	--	flue gas analyser

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TEST REPORT

Table No. 6

Stack Monitoring Report

Report No. N018524074

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	: 19.07.2024
Date of Sample Receipt	: 20.07.2024
Lab Code	: N/24/07/4-0185
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	146
4	Velocity (m/s)	8.33
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)	321932
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	25.63	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	57.33	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	51.32	500	IS: 11255(Part-7) 2017
4	CO	%	0.48	Max1%	flue gas analyser
5	Oxygen (O_2)	%	6.11	--	flue gas analyser

Arshiy Kousar
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TEST REPORT

Table No.7

Stack Monitoring Report

Report No. N018624074

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	: 19.07.2024
Date of Sample Receipt	: 20.07.2024
Lab Code	: N/24/07/4-0186
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	28
3	Stack Temperature ($^{\circ}$ C)	246
4	Velocity (m/s)	8.99
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)	280378
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	28.32	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	61.24	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	71.22	500	IS: 11255(Part-7) 2017
4	CO	%	0.55	Max1%	flue gas analyser
5	Oxygen (O_2)	%	7.33	--	flue gas analyser

Arshiya Kousar

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TEST REPORT

Table No. 8

Stack Monitoring Report

Report No. N024324074

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
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	: 20.07.2024
Date of Sample Receipt	: 22.07.2024
Lab Code	: N/24/07/4-0243
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	28
3	Stack Temperature ($^{\circ}$ C)	70
4	Velocity (m/s)	7.03
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)	10037
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	33.65	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 9

Stack Monitoring Report

Report No. N024424074

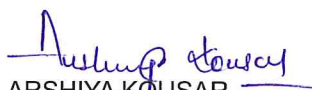
Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Collection	: 20.07.2024
Date of Sample Receipt	: 22.07.2024
Lab Code	: N/24/07/4-0244
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	75
4	Velocity (m/s)	6.77
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)	7295
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	31.23	50	IS: 11255(Part-1) 2014


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TEST REPORT

Table No. 10

Stack Monitoring Report

Report No. N024524074

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	: 20.07.2024
Date of Sample Receipt	: 22.07.2024
Lab Code	: N/24/07/4-0245
Issue date	: 01.08.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	71
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)	6872
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	36.11	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 11

AMBIENT NOISE LEVEL DATA

Report No.ELMES0102407

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 : 20.07.2024

Date of sample receipt : 22.07.2024

Issue Date : 01.08.2024

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)	43.0	51.1	58.0	31.0	40.4	45.0
N2	Existing Water Reservoir (Near WTP Plant)	37.0	44.9	49.0	34.8	43.1	46.5
Buffer zone							
N3	Galemmanagudi	36.0	46.2	52.0	33.0	39.4	43.0
N4	Vysanakere Village	35.0	45.7	50.3	34.0	44.5	47.0
N5	Hanumanhalli	38.0	49.6	54.0	34.0	38.8	43.2

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

Report No : N021924074

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	: 20.07.2024
Lab Code	: N/24/07/4-0219
Issue Date	: 31.07.2024

Sl. No.	Parameters	units	Results	Sewage Effluent Discharge Standards	Method of Testing
1	pH	-	8.26	6.0 to 8.5	IS 3025 (P-11)2017
3	Total Suspended Solids, at 105 ^o C	mg/l	5	100	IS 3025 (P-16)1984 RA 2017
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C	mg/l	3.5	30	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	24	250	IS 3025 (P-58) 2006 RA 2017
4	Total Kjeldahl Nitrogen,	mg/l	1.4	-	IS 3025 (Part-34)
5	Fecal coliform	MPN/100ml	<1.8	<1000	IS:15185 :2016 RA 2021

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