

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/ 3 \

~~05th June 2024~~

10th June 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.

Dear Sir,

Sub: - Submission of monthly environmental monitoring report for the month of May 2024.

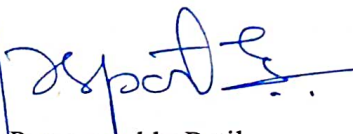
Ref: - 1) CFO No. AW-329576 PCB ID 29470 Dated 02.02.2022
2) Amended CFO No. AW-335581 PCB ID 29470 Dated 17.01.2023

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 May -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



ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 10/6/24 ಸಹಿ

Encl: Environmental Monitoring Report May -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

May, 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), Vyasankere, 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 : 01.06.2024							
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
03.05.2024	N/24/05/2-0019	12	15	58	32	<20	<1
04.05.2024	N/24/05/2-0045	9	12	54	30	<20	<1
10.05.2024	N/24/05/2-0246	12	15	63	36	<20	<1
11.05.2024	N/24/05/3-0073	10	12	44	22	<20	<1
13.05.2024	N/24/05/4-0038	13	18	52	29	<20	<1
14.05.2024	N/24/05/4-0075	11	13	57	31	<20	<1
20.05.2024	N/24/05/4-0292	10	15	48	25	<20	<1
21.05.2024	N/24/05/4-0322	9	12	53	27	<20	<1
27.05.2024	N/24/05/5-0093	14	17	46	26	<20	<1
28.05.2024	N/24/05/5-0152	10	12	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
03.05.2024	N/24/05/2-0019	0.22	<0.1	<0.5	<0.5	0.45	27
04.05.2024	N/24/05/2-0045	0.19	<0.1	<0.5	<0.5	0.33	25
10.05.2024	N/24/05/2-0246	0.11	<0.1	<0.5	<0.5	0.22	24
11.05.2024	N/24/05/3-0073	0.17	<0.1	<0.5	<0.5	0.38	25
13.05.2024	N/24/05/4-0038	0.24	<0.1	<0.5	<0.5	0.27	20
14.05.2024	N/24/05/4-0075	0.22	<0.1	<0.5	<0.5	0.36	22
20.05.2024	N/24/05/4-0292	0.10	<0.1	<0.5	<0.5	0.33	25
14.05.2024	N/24/05/4-0075	0.22	<0.1	<0.5	<0.5	0.36	22
27.05.2024	N/24/05/5-0093	0.25	<0.1	<0.5	<0.5	0.35	23
28.05.2024	N/24/05/5-0152	0.19	<0.1	<0.5	<0.5	0.31	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							

Arshiya Kousar
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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), 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)							
Duration : 24 Hrs							
Issue date : 01.06.2024							
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
03.05.2024	N/24/05/2-0020	12	15	54	29	<20	<1
04.05.2024	N/24/05/2-0046	11	14	61	35	<20	<1
10.05.2024	N/24/05/2-0247	9	12	46	26	<20	<1
11.05.2024	N/24/05/3-0074	10	14	58	30	<20	<1
13.05.2024	N/24/05/4-0039	11	15	50	28	<20	<1
14.05.2024	N/24/05/4-0076	13	18	58	32	<20	<1
20.05.2024	N/24/05/4-0293	11	15	52	28	<20	<1
21.05.2024	N/24/05/4-0323	12	14	47	24	<20	<1
27.05.2024	N/24/05/5-0094	10	15	62	36	<20	<1
28.05.2024	N/24/05/5-0153	10	14	54	29	<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
03.05.2024	N/24/05/2-0020	0.21	<0.1	<0.5	<0.5	0.39	30
04.05.2024	N/24/05/2-0046	0.27	<0.1	<0.5	<0.5	0.34	24
10.05.2024	N/24/05/2-0247	0.12	<0.1	<0.5	<0.5	0.30	28
11.05.2024	N/24/05/3-0074	0.16	<0.1	<0.5	<0.5	0.22	22
13.05.2024	N/24/05/4-0039	0.21	<0.1	<0.5	<0.5	0.26	20
14.05.2024	N/24/05/4-0076	0.27	<0.1	<0.5	<0.5	0.38	27
20.05.2024	N/24/05/4-0293	0.15	<0.1	<0.5	<0.5	0.31	28
21.05.2024	N/24/05/4-0323	0.12	<0.1	<0.5	<0.5	0.34	21
27.05.2024	N/24/05/5-0094	0.22	<0.1	<0.5	<0.5	0.30	26
28.05.2024	N/24/05/5-0153	0.13	<0.1	<0.5	<0.5	0.32	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. 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 : 01.06.2024							
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
03.05.2024	N/24/05/2-0021	14	18	54	29	<20	<1
04.05.2024	N/24/05/2-0047	9	13	48	28	<20	<1
10.05.2024	N/24/05/2-0248	13	14	56	32	<20	<1
11.05.2024	N/24/05/3-0075	10	12	50	27	<20	<1
13.05.2024	N/24/05/4-0040	14	18	57	30	<20	<1
14.05.2024	N/24/05/4-0077	11	14	54	28	<20	<1
20.05.2024	N/24/05/4-0294	9	11	44	25	<20	<1
21.05.2024	N/24/05/4-0324	12	16	50	27	<20	<1
27.05.2024	N/24/05/5-0095	14	16	46	25	<20	<1
28.05.2024	N/24/05/5-0154	10	13	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	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
03.05.2024	N/24/05/2-0021	0.14	<0.1	<0.5	<0.5	0.36	27
04.05.2024	N/24/05/2-0047	0.19	<0.1	<0.5	<0.5	0.35	20
10.05.2024	N/24/05/2-0248	0.13	<0.1	<0.5	<0.5	0.29	26
11.05.2024	N/24/05/3-0075	0.22	<0.1	<0.5	<0.5	0.26	22
13.05.2024	N/24/05/4-0040	0.11	<0.1	<0.5	<0.5	0.28	23
14.05.2024	N/24/05/4-0077	0.19	<0.1	<0.5	<0.5	0.25	25
20.05.2024	N/24/05/4-0294	0.15	<0.1	<0.5	<0.5	0.29	27
21.05.2024	N/24/05/4-0324	0.13	<0.1	<0.5	<0.5	0.27	26
27.05.2024	N/24/05/5-0095	0.29	<0.1	<0.5	<0.5	0.35	20
28.05.2024	N/24/05/5-0154	0.12	<0.1	<0.5	<0.5	0.25	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. 4

AMBIENT AIR QUALITY

Name and Address of the Industry : M/s. 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 : A4, Near Plant Railway Siding
Duration : 24 Hrs
Issue date : 01.06.2024
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
03.05.2024	N/24/05/2-0022	9	14	50	29	<20	<1
04.05.2024	N/24/05/2-0048	10	14	56	29	<20	<1
10.05.2024	N/24/05/2-0249	14	17	53	28	<20	<1
11.05.2024	N/24/05/3-0076	12	16	63	33	<20	<1
13.05.2024	N/24/05/4-0041	10	14	54	29	<20	<1
14.05.2024	N/24/05/4-0078	10	12	55	30	<20	<1
20.05.2024	N/24/05/4-0295	9	11	35	22	<20	<1
21.05.2024	N/24/05/4-0325	10	13	42	22	<20	<1
27.05.2024	N/24/05/5-0096	13	15	40	23	<20	<1
28.05.2024	N/24/05/5-0155	11	12	60	33	<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
03.05.2024	N/24/05/2-0022	0.15	<0.1	<0.5	<0.5	0.22	26
04.05.2024	N/24/05/2-0048	0.29	<0.1	<0.5	<0.5	0.30	25
10.05.2024	N/24/05/2-0249	0.10	<0.1	<0.5	<0.5	0.30	27
11.05.2024	N/24/05/3-0076	0.24	<0.1	<0.5	<0.5	0.35	26
13.05.2024	N/24/05/4-0041	0.13	<0.1	<0.5	<0.5	0.32	22
14.05.2024	N/24/05/4-0078	0.29	<0.1	<0.5	<0.5	0.36	25
20.05.2024	N/24/05/4-0295	0.19	<0.1	<0.5	<0.5	0.31	22
21.05.2024	N/24/05/4-0325	0.10	<0.1	<0.5	<0.5	0.27	25
27.05.2024	N/24/05/5-0096	0.29	<0.1	<0.5	<0.5	0.45	27
28.05.2024	N/24/05/5-0155	0.25	<0.1	<0.5	<0.5	0.40	28
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 Rousar
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TEST REPORT

Table No. 5

Stack Monitoring Report

Report No. N025024052

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	: 10.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0250
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	36
3	Stack Temperature (°C)	130
4	Velocity (m/s)	8.09
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)	96653
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	38.66	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	24.15	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	30.25	--	IS: 11255(Part-7) 2017
4	CO	%	0.38	--	flue gas analyser
5	Oxygen (O ₂)	%	16.22	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No. 6

Report No. N025124052

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	: 10.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0251
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	36
3	Stack Temperature ($^{\circ}\text{C}$)	266
4	Velocity (m/s)	9.65
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)	289720
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	34.55	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	61.22	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	62.25	500	IS: 11255(Part-7) 2017
4	CO	%	0.58	Max1%	flue gas analyser
5	Oxygen (O_2)	%	9.35	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No. 7

Report No. N025224052

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	: 10.05.2024
Date of Sample Receipt	: 11.05.2024
Lab Code	: N/24/05/2-0252
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	36
3	Stack Temperature ($^{\circ}$ C)	246
4	Velocity (m/s)	8.88
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)	276885.0
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	30.21	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	66.12	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	73.55	500	IS: 11255(Part-7) 2017
4	CO	%	0.44	Max1%	flue gas analyser
5	Oxygen (O_2)	%	7.18	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No. 8

Report No. N002224053

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	: 11.05.2024
Date of Sample Receipt	: 13.05.2024
Lab Code	: N/24/05/3-0022
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	36
3	Stack Temperature (°C)	80
4	Velocity (m/s)	7.11
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)	9867
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	38.66	50	IS: 11255(Part-1) 2014

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TEST REPORT Stack Monitoring Report

Table No. 9

Report No. N002324053

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	: 11.05.2024
Date of Sample Receipt	: 13.05.2024
Lab Code	: N/24/05/3-0023
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	36
3	Stack Temperature (°C)	78
4	Velocity (m/s)	6.72
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)	7179
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	35.22	50	IS: 11255(Part-1) 2014

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TEST REPORT Stack Monitoring Report

Table No. 10

Report No. N002424053

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	: 11.05.2024
Date of Sample Receipt	: 13.05.2024
Lab Code	: N/24/05/3-0024
Issue date	: 01.06.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	36
3	Stack Temperature (°C)	76
4	Velocity (m/s)	6.24
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)	6708
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	42.56	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 11

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 : 11.05.2024							
Date of sample receipt : 13.05.2024							
Issue Date : 01.06.2024							
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)	38.6	56.6	65.0	34.0	44.3	52.0
N2	Existing Water Reservoir (Near WTP Plant)	40.0	57.5	63.8	34.8	45.2	50.8
Buffer zone							
N3	Galemmanagudi	37.0	52.3	59.0	35.0	43.8	48.0
N4	Vysanakere Village	41.0	51.4	57.3	34.0	44.0	47.0
N5	Hanumanhalli	40.0	52.0	59.3	34.0	43.4	47.5
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>							
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 : N008924052

Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vyasnakere village, Hosapete Taluk, Ballari District, Karnataka
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 10.05.2024
Lab Code	: N/24/05/2-0089
Issue Date	: 20.05.2024

Sl. No.	Parameters	units	Results	Sewage Effluent Discharge Standards	Method of Testing
1	pH	-	7.12	6.0 to 8.5	IS 3025 (P-11)2017
3	Total Suspended Solids, at 105 ^o C	mg/l	<5.0	100	IS 3025 (P-16)1984 RA 2017
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C	mg/l	12	30	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	26	250	IS 3025 (P-58) 2006 RA 2017
4	Total Kjeldahl Nitrogen,	mg/l	2.25	-	IS 3025 (Part-34)
5	Fecal coliform	MPN/100ml	<1.8	<1000	IS:15185 :2016 RA 2021

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