

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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Bellary Road, Sadashivanagar
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Tel: +91 80 4152 0176 - 79 / 4547 3000
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Ref No: SMIORE/PLANT/ENV/MR/2023-24/145

07 March 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 February -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

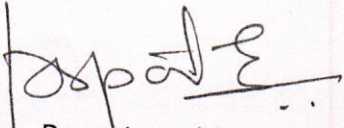
Dear Sir,

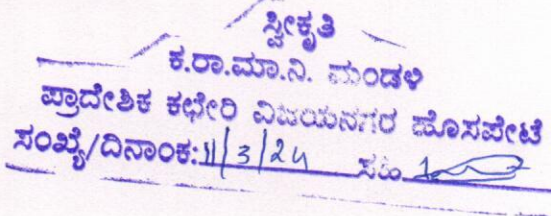
With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasankere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period February -2024 for your kind perusal.

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 ಜೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 11/3/24 ಸಹಿ 1

Encl: Environmental Monitoring Report February -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

February, 2024

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

CONSULTANT

MINERAL ENGINEERING SERVICES
(Accredited by QCI-NABET ORG000756)
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Karnataka, Tel 08392-267421, Mob:
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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,

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 4
2	Stack Monitoring Report	5 to 10
3	Ambient Noise Level Data	11



ENVIRONMENTAL LABORATORY

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ISO 45001:2018

(UNIT OF MINERAL ENGINEERING SERVICES)

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), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory Representative							
Station at & Code : A1, Near Existing AAQMS 01 (SMIORE Schools)							
Duration : 24 Hrs							
Issue date : 01.03.2024							
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
02.02.2024	N/24/02/2-0007	8	10	55	32	<20	<1
03.02.2024	N/24/02/2-0011	12	18	52	33	<20	<1
05.02.2024	N/24/02/2-0047	14	15	50	36	<20	<1
06.02.2024	N/24/02/2-0082	10	12	59	31	<20	<1
16.02.2024	N/24/02/4-0176	13	18	60	35	<20	<1
17.02.2024	N/24/02/4-0202	9	13	48	34	<20	<1
19.02.2024	N/24/02/5-0016	11	12	57	39	<20	<1
20.02.2024	N/24/02/5-0049	8	10	51	38	<20	<1
26.02.2024	N/24/03/1-0027	10	13	48	26	<20	<1
27.02.2024	N/24/03/1-0076	9	11	56	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
02.02.2024	N/24/02/2-0007	0.20	<0.1	<0.5	<0.5	0.32	22
03.02.2024	N/24/02/2-0011	0.14	<0.1	<0.5	<0.5	0.25	24
05.02.2024	N/24/02/2-0047	0.18	<0.1	<0.5	<0.5	0.26	21
06.02.2024	N/24/02/2-0082	<0.1	<0.1	<0.5	<0.5	0.38	20
16.02.2024	N/24/02/4-0176	0.19	<0.1	<0.5	<0.5	0.29	23
17.02.2024	N/24/02/4-0202	0.14	<0.1	<0.5	<0.5	0.35	27
19.02.2024	N/24/02/5-0016	0.19	<0.1	<0.5	<0.5	0.29	20
20.02.2024	N/24/02/5-0049	0.10	<0.1	<0.5	<0.5	0.25	22
26.02.2024	N/24/03/1-0027	0.14	<0.1	<0.5	<0.5	0.33	23
27.02.2024	N/24/03/1-0076	0.18	<0.1	<0.5	<0.5	0.25	25
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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ENVIRONMENTAL LABORATORY

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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 Representative							
Station at & Code : A2, Existing Water Reservoir (Near WTP Plant)							
Duration : 24 Hrs							
Issue date : 01.03.2024							
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
02.02.2024	N/24/02/2-0008	6	12	46	24	<20	<1
03.02.2024	N/24/02/2-0012	7	10	53	27	<20	<1
05.02.2024	N/24/02/2-0048	9	13	45	19	<20	<1
06.02.2024	N/24/02/2-0083	10	10	50	28	<20	<1
16.02.2024	N/24/02/4-0177	13	18	45	20	<20	<1
17.02.2024	N/24/02/4-0203	12	15	57	30	<20	<1
19.02.2024	N/24/02/5-0017	9	12	52	28	<20	<1
20.02.2024	N/24/02/5-0050	8	10	50	26	<20	<1
26.02.2024	N/24/03/1-0028	10	13	45	25	<20	<1
27.02.2024	N/24/03/1-0077	7	9	40	22	<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
02.02.2024	N/24/02/2-0008	0.11	<0.1	<0.5	<0.5	0.45	27
03.02.2024	N/24/02/2-0012	0.19	<0.1	<0.5	<0.5	0.30	28
05.02.2024	N/24/02/2-0048	0.19	<0.1	<0.5	<0.5	0.28	26
06.02.2024	N/24/02/2-0083	0.10	<0.1	<0.5	<0.5	0.26	24
16.02.2024	N/24/02/4-0177	0.12	<0.1	<0.5	<0.5	0.23	25
17.02.2024	N/24/02/4-0203	0.15	<0.1	<0.5	<0.5	0.21	26
19.02.2024	N/24/02/5-0017	0.19	<0.1	<0.5	<0.5	0.25	25
20.02.2024	N/24/02/5-0050	0.22	<0.1	<0.5	<0.5	0.29	27
26.02.2024	N/24/03/1-0028	0.14	<0.1	<0.5	<0.5	0.32	28
27.02.2024	N/24/03/1-0077	0.08	<0.1	<0.5	<0.5	0.35	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 Representative							
Station at & Code : A3, Galemmanagudi							
Duration : 24 Hrs							
Issue date : 01.03.2024							
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
02.02.2024	N/24/02/2-0009	9	10	48	29	<20	<1
03.02.2024	N/24/02/2-0013	8	11	47	26	<20	<1
05.02.2024	N/24/02/2-0049	7	10	41	27	<20	<1
06.02.2024	N/24/02/2-0084	10	15	54	32	<20	<1
16.02.2024	N/24/02/4-0178	10	12	56	28	<20	<1
17.02.2024	N/24/02/4-0204	11	14	45	24	<20	<1
19.02.2024	N/24/02/5-0018	12	13	53	25	<20	<1
20.02.2024	N/24/02/5-0051	10	12	50	26	<20	<1
26.02.2024	N/24/03/1-0029	11	14	54	27	<20	<1
27.02.2024	N/24/03/1-0078	13	16	48	24	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	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
02.02.2024	N/24/02/2-0009	0.11	<0.1	<0.5	<0.5	0.27	26
03.02.2024	N/24/02/2-0013	0.20	<0.1	<0.5	<0.5	0.25	29
05.02.2024	N/24/02/2-0049	0.14	<0.1	<0.5	<0.5	0.41	27
06.02.2024	N/24/02/2-0084	0.12	<0.1	<0.5	<0.5	0.32	28
16.02.2024	N/24/02/4-0178	0.15	<0.1	<0.5	<0.5	0.35	26
17.02.2024	N/24/02/4-0204	<0.1	<0.1	<0.5	<0.5	0.22	24
19.02.2024	N/24/02/5-0018	0.15	<0.1	<0.5	<0.5	0.24	25
20.02.2024	N/24/02/5-0051	<0.1	<0.1	<0.5	<0.5	0.36	26
26.02.2024	N/24/03/1-0029	0.12	<0.1	<0.5	<0.5	0.22	25
27.02.2024	N/24/03/1-0078	0.14	<0.1	<0.5	<0.5	0.32	27
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 Representative							
Station at & Code : A4, Near Plant Railway Siding							
Duration : 24 Hrs							
Issue date : 01.03.2024							
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
02.02.2024	N/24/02/2-0010	10	12	50	27	<20	<1
03.02.2024	N/24/02/2-0014	12	13	46	28	<20	<1
05.02.2024	N/24/02/2-0050	9	11	49	31	<20	<1
06.02.2024	N/24/02/2-0085	12	16	45	33	<20	<1
16.02.2024	N/24/02/4-0179	10	12	50	28	<20	<1
17.02.2024	N/24/02/4-0205	9	10	45	26	<20	<1
19.02.2024	N/24/02/5-0019	9	15	53	28	<20	<1
20.02.2024	N/24/02/5-0052	11	18	42	23	<20	<1
26.02.2024	N/24/03/1-0030	10	12	50	21	<20	<1
27.02.2024	N/24/03/1-0079	11	15	45	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
02.02.2024	N/24/02/2-0010	0.16	<0.1	<0.5	<0.5	<0.2	28
03.02.2024	N/24/02/2-0014	0.10	<0.1	<0.5	<0.5	0.26	20
05.02.2024	N/24/02/2-0050	0.15	<0.1	<0.5	<0.5	<0.2	27
06.02.2024	N/24/02/2-0085	0.14	<0.1	<0.5	<0.5	<0.2	20
16.02.2024	N/24/02/4-0179	0.12	<0.1	<0.5	<0.5	<0.2	22
17.02.2024	N/24/02/4-0205	<0.1	<0.1	<0.5	<0.5	0.26	23
19.02.2024	N/24/02/5-0019	0.10	<0.1	<0.5	<0.5	0.31	25
20.02.2024	N/24/02/5-0052	<0.1	<0.1	<0.5	<0.5	0.22	27
26.02.2024	N/24/03/1-0030	0.12	<0.1	<0.5	<0.5	<0.2	28
27.02.2024	N/24/03/1-0079	0.15	<0.1	<0.5	<0.5	<0.2	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 K. Dusar
ARSHIYA K. DUSAR

Dy. T.M. - Chemical

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TEST REPORT

Stack Monitoring Report

Table No. 5

Report No. N021824024

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 Representative
Date of Collection	: 19.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 21.02.2024
Lab Code	: N/24/02/4-0218
Issue date	: 01.03.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	33
3	Stack Temperature (°C)	122
4	Velocity (m/s)	8.01
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m ²)	4.9109
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	97017
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	36.21	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	23.54	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	31.88	--	IS: 11255(Part-7) 2017
4	CO	%	0.35	--	flue gas analyser
5	Oxygen (O ₂)	%	18.22	--	flue gas analyser

Arshiy Kousar
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Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 6

Stack Monitoring Report

Report No. N020624024

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 Representative
Date of Collection	: 17.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 19.02.2024
Lab Code	: N/24/02/4-0206
Issue date	: 01.03.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	32
3	Stack Temperature ($^{\circ}\text{C}$)	252
4	Velocity (m/s)	9.52
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)	293559
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	30.85	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	64.22	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	72.54	500	IS: 11255(Part-7) 2017
4	CO	%	0.48	Max1%	flue gas analyser
5	Oxygen (O_2)	%	7.00	--	flue gas analyser

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TEST REPORT

Stack Monitoring Report

Table No. 7

Report No. N020724024

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 Representative				
Date of Collection	: 17.02.2024				
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1				
Date of Sample Receipt	: 19.02.2024				
Lab Code	: N/24/02/4-0207				
Issue date	: 01.03.2024				
STACK DETAILS					
1	Fuel Used	-			
2	Ambient Temperature ($^{\circ}\text{C}$)	32			
3	Stack Temperature ($^{\circ}\text{C}$)	234			
4	Velocity (m/s)	8.77			
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)	280143.0			
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	28.66	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2).	mg/Nm^3	67.52	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	79.22	500	IS: 11255(Part-7) 2017
4	CO	%	0.42	Max1%	flue gas analyser
5	Oxygen (O_2)	%	6.88	--	flue gas analyser

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TEST REPORT

Stack Monitoring Report

Table No. 8

Report No. N021924024

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 Representative				
Date of Collection	: 19.02.2024				
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1				
Date of Sample Receipt	: 21.02.2024				
Lab Code	: N/24/02/4-0219				
Issue date	: 01.03.2024				
STACK DETAILS					
1	Fuel Used	-			
2	Ambient Temperature ($^{\circ}\text{C}$)	33			
3	Stack Temperature ($^{\circ}\text{C}$)	60			
4	Velocity (m/s)	6.91			
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)	10159			
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	27.22	50	IS: 11255(Part-1) 2014

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TEST REPORT

Stack Monitoring Report

Table No. 9

Report No. N022024024

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 Representative				
Date of Collection	: 20.02.2024				
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1				
Date of Sample Receipt	: 21.02.2024				
Lab Code	: N/24/02/4-0220				
Issue date	: 01.03.2024				
STACK DETAILS					
1	Fuel Used	-			
2	Ambient Temperature (°C)	33			
3	Stack Temperature (°C)	62			
4	Velocity (m/s)	6.57			
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)	7348			
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	33.54	50	IS: 11255(Part-1) 2014

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TEST REPORT

Stack Monitoring Report

Table No. 10

Report No. N022124024

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 Representative
Date of Collection	: 20.02.2024
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 21.02.2024
Lab Code	: N/24/02/4-0221
Issue date	: 01.03.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	33
3	Stack Temperature (°C)	66
4	Velocity (m/s)	6.15
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)	6806
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	31.61	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),

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 Representative

Date of sample collection : 17.02.2024

Date of sample receipt : 19.02.2024

Issue Date : 01.03.2024

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)	38.0	49.5	56.3	35.2	41.9	46.5
N2	Existing Water Reservoir (Near WTP Plant)	40.0	54.2	63.2	35.3	43.3	48.2
Buffer zone							
N3	Galemmanagudi	39.0	51.3	59.0	34.0	42.8	47.6
N4	Vysanakere Village	36.0	50.5	56.8	35.0	43.7	46.8
N5	Hanumanhalli	37.5	53.9	61.0	36.0	44.3	49.2

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 N018524024

Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vysanakere village, Hosapete Taluk, Ballari District, Karnataka
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 16.02.2024
Lab Code	: N/24/02/4-0185
Issue Date	: 26.02.2024

Sl. No.	Parameters	units	Results	Sewage Effluent Discharge Standards	Method of Testing
1	pH	-	7.50	6.0 to 8.5	IS 3025 (P-11)2017
3	Total Suspended Solids, at 105 ^o C	mg/l	20	100	IS 3025 (P-16)1984 RA 2017
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C	mg/l	16	30	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	8	250	IS 3025 (P-58) 2006 RA 2017
4	Total Kjeldahl Nitrogen,	mg/l	<1	-	IS 3025 (Part-34)
5	Fecal coliform	MPN/100ml	Absent	<1000	IS:15185 :2016 RA 2021


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