

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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Bengaluru - 560 080
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Tel: +91 80 4152 0176 - 79 / 4547 3000
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Ref No: SMIORE/PLANT/ENV/MR/2023-24/129

05.01.2024

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 December-2023.

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

Dear Sir,

With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasankere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period December -2023 for your kind perusal.

Kindly acknowledge receipt of the same.

Thanking you,

The Sandur Manganese & Iron Ores Limited,


Authorized Signatory

ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೆಚ್.ಸಿ.ಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 4/1/2024/ಸಹಿ

Encl: Environmental Monitoring Report December - 2023

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

December, 2023

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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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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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 : 02.01.2024							
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
04.12.2023	N/23/12/2-0026	9	11	49	27	<20	<1
05.12.2023	N/23/12/2-0050	10	13	54	29	<20	<1
15.12.2023	N/23/12/3-0231	9	10	44	23	<20	<1
16.12.2023	N/23/12/4-0036	7	13	58	32	<20	<1
18.12.2023	N/23/12/4-0079	9	9	50	27	<20	<1
19.12.2023	N/23/12/4-0109	8	12	55	30	<20	<1
27.12.2023	N/23/12/5-0122	7	14	50	27	<20	<1
28.12.2023	N/23/12/5-0172	13	15	48	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
04.12.2023	N/23/12/2-0026	<0.1	<0.1	<0.5	<0.5	<0.2	26
05.12.2023	N/23/12/2-0050	<0.1	<0.1	<0.5	<0.5	0.22	22
15.12.2023	N/23/12/3-0231	0.11	<0.1	<0.5	<0.5	0.36	23
16.12.2023	N/23/12/4-0036	0.15	<0.1	<0.5	<0.5	<0.2	21
18.12.2023	N/23/12/4-0079	<0.1	<0.1	<0.5	<0.5	<0.2	24
19.12.2023	N/23/12/4-0109	0.10	<0.1	<0.5	<0.5	<0.2	25
27.12.2023	N/23/12/5-0122	<0.1	<0.1	<0.5	<0.5	<0.2	21
28.12.2023	N/23/12/5-0172	<0.1	<0.1	<0.5	<0.5	<0.2	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

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

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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 : 02.01.2024							
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
04.12.2023	N/23/12/2-0027	9	10	55	27	<20	<1
05.12.2023	N/23/12/2-0051	11	14	48	25	<20	<1
15.12.2023	N/23/12/3-0232	10	11	47	23	<20	<1
16.12.2023	N/23/12/4-0037	7	9	45	22	<20	<1
18.12.2023	N/23/12/4-0080	9	10	50	26	<20	<1
19.12.2023	N/23/12/4-0110	8	14	48	24	<20	<1
27.12.2023	N/23/12/5-0123	11	12	53	28	<20	<1
28.12.2023	N/23/12/5-0173	12	15	56	31	<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
04.12.2023	N/23/12/2-0027	0.11	<0.1	<0.5	<0.5	<0.2	21
05.12.2023	N/23/12/2-0051	0.10	<0.1	<0.5	<0.5	<0.2	25
15.12.2023	N/23/12/3-0232	0.12	<0.1	<0.5	<0.5	<0.2	27
16.12.2023	N/23/12/4-0037	0.15	<0.1	<0.5	<0.5	<0.2	24
18.12.2023	N/23/12/4-0080	<0.1	<0.1	<0.5	<0.5	0.26	20
19.12.2023	N/23/12/4-0110	0.11	<0.1	<0.5	<0.5	0.23	21
27.12.2023	N/23/12/5-0123	0.14	<0.1	<0.5	<0.5	0.21	22
28.12.2023	N/23/12/5-0173	0.12	<0.1	<0.5	<0.5	0.25	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 Representative							
Station at & Code : A3, Galemmanagudi							
Duration : 24 Hrs							
Issue date : 02.01.2024							
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
04.12.2023	N/23/12/2-0028	10	12	49	26	<20	<1
05.12.2023	N/23/12/2-0052	6	9	51	28	<20	<1
15.12.2023	N/23/12/3-0233	9	13	34	19	<20	<1
16.12.2023	N/23/12/4-0038	11	14	47	24	<20	<1
18.12.2023	N/23/12/4-0081	9	13	51	28	<20	<1
19.12.2023	N/23/12/4-0111	12	14	46	24	<20	<1
27.12.2023	N/23/12/5-0124	9	11	50	26	<20	<1
28.12.2023	N/23/12/5-0174	10	13	44	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
04.12.2023	N/23/12/2-0028	0.11	<0.1	<0.5	<0.5	0.29	21
05.12.2023	N/23/12/2-0052	<0.1	<0.1	<0.5	<0.5	0.32	23
15.12.2023	N/23/12/3-0233	<0.1	<0.1	<0.5	<0.5	<0.2	25
16.12.2023	N/23/12/4-0038	0.12	<0.1	<0.5	<0.5	<0.2	26
18.12.2023	N/23/12/4-0081	0.15	<0.1	<0.5	<0.5	<0.2	24
19.12.2023	N/23/12/4-0111	<0.1	<0.1	<0.5	<0.5	<0.2	22
27.12.2023	N/23/12/5-0124	0.11	<0.1	<0.5	<0.5	<0.2	21
28.12.2023	N/23/12/5-0174	<0.1	<0.1	<0.5	<0.5	<0.2	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 Representative							
Station at & Code : A4, Near Plant Railway Siding							
Duration : 24 Hrs							
Issue date : 02.01.2024							
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
04.12.2023	N/23/12/2-0029	9	12	54	30	<20	<1
05.12.2023	N/23/12/2-0053	5	8	49	27	<20	<1
15.12.2023	N/23/12/3-0234	8	11	56	28	<20	<1
16.12.2023	N/23/12/4-0039	7	10	39	21	<20	<1
18.12.2023	N/23/12/4-0082	9	11	40	26	<20	<1
19.12.2023	N/23/12/4-0112	10	13	50	27	<20	<1
27.12.2023	N/23/12/5-0125	7	9	36	21	<20	<1
28.12.2023	N/23/12/5-0175	9	11	45	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
04.12.2023	N/23/12/2-0029	0.10	<0.1	<0.5	<0.5	<0.2	26
05.12.2023	N/23/12/2-0053	0.12	<0.1	<0.5	<0.5	<0.2	26
15.12.2023	N/23/12/3-0234	0.14	<0.1	<0.5	<0.5	<0.2	28
16.12.2023	N/23/12/4-0039	0.18	<0.1	<0.5	<0.5	<0.2	22
18.12.2023	N/23/12/4-0082	<0.1	<0.1	<0.5	<0.5	<0.2	21
19.12.2023	N/23/12/4-0112	0.19	<0.1	<0.5	<0.5	<0.2	26
27.12.2023	N/23/12/5-0125	<0.1	<0.1	<0.5	<0.5	<0.2	22
28.12.2023	N/23/12/5-0175	0.16	<0.1	<0.5	<0.5	<0.2	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. 5

Analysis Report of Fugitive Emission

Report No.N008323124

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 : Near Battery Area (Coke Oven)

Duration : 08 Hrs

Issue date : 02.01.2024

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
18.12.2023	N/23/12/4-083	14	16	384	0.28	0.38	<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. 6

Analysis Report of Fugitive Emission

Report No. N008423124

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 Representative

Station at & Code : Coal Storage area (Coke Oven)

Duration : 08 Hrs

Issue date : 02.01.2024

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
18.12.2023	N/23/12/4-084	12	20	412	0.22	0.45	<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.N0011323124

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 : Finished goods yard in between F3 & F5 (M&FA)						
Duration : 08 Hrs						
Issue date : 02.01.2024						
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
19.12.2023	N/23/12/4-0113	12	16	325	0.28	0.26
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.N0011423124

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 : 02.01.2024

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
19.12.2023	N/23/12/4-0114	11	13	422	0.18	0.33
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10
		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
ARSHIYA KOUSAR

Dy. T.M. - Chemical

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TEST REPORT



Table No. 9

Stack Monitoring Report

Report No. : N023523123

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	: 15.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 16.12.2023
Lab Code	: N/23/12/3-0235
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	30
3	Stack Temperature ($^{\circ}\text{C}$)	99
4	Velocity (m/s)	77.61
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)	97818
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	35.20	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	20.00	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	31.00	--	IS: 11255(Part-7) 2017
4	CO	%	0.45	--	flue gas analyser
5	Oxygen (O_2)	%	17.90	--	flue gas analyser

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TEST REPORT

Table No. 10

Stack Monitoring Report

Report No. : N023623123

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	: 15.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 16.12.2023
Lab Code	: N/23/12/3-0236
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	26
3	Stack Temperature ($^{\circ}$ C)	299
4	Velocity (m/s)	6.93
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)	281240
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	40.21	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	59.00	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	68.50	500	IS: 11255(Part-7) 2017
4	CO	%	0.54	Max1%	flue gas analyser
5	Oxygen (O_2)	%	19.20	--	flue gas analyser

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TEST REPORT

Table No. 11

Stack Monitoring Report

Report No. : N023723123

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	: 15.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 16.12.2023
Lab Code	: N/23/12/3-0237
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	26
3	Stack Temperature (°C)	210
4	Velocity (m/s)	8.5
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)	284825.0
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	36.20	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	64.00	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	72.50	500	IS: 11255(Part-7) 2017
4	CO	%	0.33	Max1%	flue gas analyser
5	Oxygen (O ₂)	%	6.80	--	flue gas analyser

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TEST REPORT

Table No. 12

Stack Monitoring Report

Report No. : N00

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	: 16.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 18.12.2023
Lab Code	: N/23/12/4-0040
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	58
4	Velocity (m/s)	6.80
5	Stack Height (M)	15
6	Stack Diameter (M)	0.8
7	Cross Sectional Area in meter square (m ²)	0.4419
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	10052
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	30.00	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 13

Stack Monitoring Report

Report No. : N00

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 Representative
Date of Collection	: 16.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 18.12.2023
Lab Code	: N/23/12/4-0041
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	56
4	Velocity (m/s)	6.51
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)	7415
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	28.20	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 14

Stack Monitoring Report

Report No. : N00

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vysanakere, 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	: 16.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 18.12.2023
Lab Code	: N/23/12/4-0042
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	50
4	Velocity (m/s)	6.00
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)	6973
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	31.40	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 15

Stack Monitoring Report

Report No. : N000123124

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	: 27.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 27.12.2023
Lab Code	: N/23/12/4-0001
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	180
4	Velocity (m/s)	9.10
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1947
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	0.013	<0.2
2	CO	g/Kw-hr	0.08	<3.5
3	Nox +HC	g/Kw-hr	0.27	<4.0

INFERENCE	as per KSPCB Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards
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TEST REPORT

Table No. 16

Stack Monitoring Report

Report No. : N000223124

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	: 27.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 27.12.2023
Lab Code	: N/23/12/4-002
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	156
4	Velocity (m/s)	11.96
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	951
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	338 DTH 14
11	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysis Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.13	<0.2
2	CO	g/Kw-hr	0.27	<3.5
3	Nox +HC	g/Kw-hr	0.65	<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. : N000323124

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	: 19.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 20.12.2023
Lab Code	: N/23/12/4-003
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	27
3	Stack Temperature ($^{\circ}\text{C}$)	240
4	Velocity (m/s)	15.96
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	1160
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	0.42	<3.5
3	Nox +HC	g/Kw-hr	0.82	<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. : N000423124

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasankere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Stack ID	: DG Set 625 KVA (Power Plant)
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 19.12.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 20.12.2023
Lab Code	: N/23/12/4-004
Issue date	: 02.01.2024

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}$ C)	27
3	Stack Temperature ($^{\circ}$ C)	396
4	Velocity (m/s)	19.32
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	1989
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	0.10	<0.2
2	CO	g/Kw-hr	0.38	<3.5
3	Nox +HC	g/Kw-hr	0.79	<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. 19

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 : 15.12.2023							
Date of sample receipt : 16.12.2023							
Issue Date : 02.01.2024							
Sampling & Test Method : IS:9989							
Code No.	Monitoring stations	Day			Night		
		(06.00 Am to 10.00 Pm)			(10.00 Pm to 06.00 Am)		
		L _{min}	L _{eq}	L _{max}	L _{min}	L _{eq}	L _{max}
Core zone							
N1	Near Existing AAQMS 01 (SMIORE Schools)	42.0	52.4	61.0	34.0	42.1	47.3
N2	Existing Water Reservoir (Near WTP Plant)	40.0	51.2	58.1	35.3	43.9	48.3
Buffer zone							
N3	Galemmanagudi	39.0	50.9	56.8	34.6	41.5	45.0
N4	Vysanakere Village	40.8	49.3	55.8	34.0	43.8	46.0
N5	Hanumanhalli	38.0	49.7	54.0	36.0	43.4	47.0
<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

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 : 15.12.2023					
Date of sample receipt : 16.12.2023					
Issue Date : 02.01.2024					
Code No.	Monitoring stations	Day			Remarks
		L _{min}	L _{eq}	L _{max}	
Corezone					
1	ARC Furnace -3 area	45.3	58.5	68.0	During operation
2	ARC Furnace -5 area	39.5	54.0	72.0	During operation
3	Near WHRB -1	41.0	48.0	63.0	During operation
4	Near WHRB -2	44.0	55.0	65.0	During operation
5	Near Power plant turbine	38.0	58.0	61.0	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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ENVIRONMENTAL LABORATORY



(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. 21

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			: 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	72.3	75.0
N2	Stack Attached to 250 KVA at VHT-2		69.5	
N3	Stack Attached to 250 KVA at New Baghouse		66.5	
N4	Stack Attached to 625 KVA (Power Plant)		70.0	
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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