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

10th July 2024

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

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.

<u>Subject:</u> Submission of monthly environmental monitoring report for the month of June 2024.

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

Dear Sir,

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

Kindly acknowledge receipt of the same.

Thanking you,

For The Sandur Manganese & Iron Ores Limited,

Parvatareddy Patil

Senior General Manager-Plant

Encl: Environmental Monitoring Report June -2024

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ENVIRONMENTAL MONITORING REPORT

June, 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,

LIST OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 4
2	Test Report of Fugitive Emission	5 to 8
3	Stack Monitoring Report	9 to 18
4	Ambient Noise Level Data	19
5	Fugitive Noise Level Data	20 & 21



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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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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 (Unit of Mineral Engineering Services)
Station at & Code : A1, Near Existing AAQMS 01 (SMIORE Schools)

Duration : 2

: 24 Hrs

Issue date

: 01.07.2024

Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), μg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (μg/m³)	PM _{2.5,} (μg/m ³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ³
07.06.2024	N/24/06/2-0114	7	9	38	19	<20	<1
08.06.2024	N/24/06/3-0024	8	12	41	22	<20	<1
10.06.2024	N/24/06/4-0012	7	9	40	21	<20	<1
11.06.2024	N/24/06/4-0070	12	14	49	24	<20	<1
21.06.2024	N/24/06/5-0129	7	9	56	28	<20	<1
22.06.2024	N/24/06/5-0216	11	12	47	25	<20	<1
24.06.2024	N/24/06/5-0340	9	12	52	28	<20	<1
25.06.2024	N/24/06/5-0451	8	10	48	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
07.06.2024	N/24/06/2-0114	0.18	<0.1	<0.5	<0.5	0.26	23
08.06.2024	N/24/06/3-0024	0.28	<0.1	<0.5	<0.5	0.38	27
10.06.2024	N/24/06/4-0012	0.16	<0.1	<0.5	<0.5	0.41	26
11.06.2024	N/24/06/4-0070	0.28	<0.1	<0.5	<0.5	0.48	25
21.06.2024	N/24/06/5-0129	0.11	<0.1	<0.5	<0.5	0.38	24
22.06.2024	N/24/06/5-0216	0.19	<0.1	< 0.5	<0.5	0.26	25
24.06.2024	N/24/06/5-0340	0.24	<0.1	<0.5	<0.5	0.33	29
25.06.2024	N/24/06/5-0451	0.22	<0.1	<0.5	<0.5	0.26	26
Limits for Industrial,		1.0	20	6	1	4	180
Residential, Rural and	other Areas	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr
Note: * Parameters r	nonitored for per	iod of 1 h	r				

ARSHIYA KOUSAR Dy. T.M. - Chemical

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Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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TEST REPORT

Table No. 2

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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 : 01.07.2024

Issue date : 01.07.2 Reference IS 5182 & Lab SOP

Reference 13 3 102 &	Lab SOF						
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), μg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (μg/m³)	PM _{2.5,} (μg/m ³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ³
07.06.2024	N/24/06/2-0115	10	13	46	27	<20	<1
08.06.2024	N/24/06/3-0025	7	10	48	25	<20	<1
10.06.2024	N/24/06/4-0013	11	13	45	24	<20	<1
11.06.2024	N/24/06/4-0071	8	17	51	27	<20	<1
21.06.2024	N/24/06/5-0130	11	15	58	33	<20	<1
22.06.2024	N/24/06/5-0217	, 7	12	38	21	<20	<1
24.06.2024	N/24/06/5-0341	10	14	43	26	<20	<1
25.06.2024	N/24/06/5-0452	8	13	52	30	<20	<1
Limits for Industrial,	imits for Industrial ,		80	100	60	400	5
Residential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Lab Code	Lead (Pb), μg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
07.06.2024	N/24/06/2-0115	0.19	<0.1	<0.5	<0.5	0.33	23
08.06.2024	N/24/06/3-0025	0.24	<0.1	<0.5	<0.5	0.26	26
10.06.2024	N/24/06/4-0013	0.11	<0.1	<0.5	<0.5	0.45	26
11.06.2024	N/24/06/4-0071	0.16	<0.1	<0.5	<0.5	0.35	21
21.06.2024	N/24/06/5-0130	0.29	<0.1	<0.5	<0.5	0.28	25
22.06.2024	N/24/06/5-0217	0.22	<0.1	<0.5	<0.5	0.42	28
24.06.2024	N/24/06/5-0341	0.13	<0.1	<0.5	<0.5	0.36	22
25.06.2024	N/24/06/5-0452	0.18	<0.1	<0.5	<0.5	0.24	26
Limits for Industrial,	•	1.0	20	6	1	4	180
Residential, Rural and	24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr	

ARSHIYA KOUSAR Dy. T.M. - Chemical

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Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 3

AMBIENT AIR QUALITY

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Station at & Code : A3, Galemmanagudi

Duration : 24 Hrs
Issue date : 01.07.2024
Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (μg/m ³)	PM _{2.5,} (μg/m ³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ³
07.06.2024	N/24/06/2-0116	10	15	35	20	<20	<1
08.06.2024	N/24/06/3-0026	11	14	38	15	<20	<1
10.06.2024	N/24/06/4-0014	9	12	54	32	<20	<1
11.06.2024	N/24/06/4-0072	7	12	47	24	<20	<1
21.06.2024	N/24/06/5-0131	12	14	52	29	<20	<1
22.06.2024	N/24/06/5-0218	6	9	55	27	<20	<1
24.06.2024	N/24/06/5-0342	11	14	43	26	<20	<1
25.06.2024	N/24/06/5-0453	7	16	48	25	<20	<1
mits for Industrial,		80	80	100	60	400	5
esidential, Rural and other Areas		24 Hrs	24 Hrs	24 Hrs	24 Hrs	24 Hrs	Annual

Date of Sampling	Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
07.06.2024	N/24/06/2-0116	0.14	<0.1	<0.5	<0.5	0.33	28
08.06.2024	N/24/06/3-0026	0.13	<0.1	<0.5	<0.5	0.28	22
10.06.2024	N/24/06/4-0014	0.26	<0.1	<0.5	<0.5	0.39	27
11.06.2024	N/24/06/4-0072	0.19	<0.1	<0.5	<0.5	0.41	26
21.06.2024	N/24/06/5-0131	0.11	<0.1	<0.5	<0.5	0.39	21
22.06.2024	N/24/06/5-0218	0.15	<0.1	<0.5	<0.5	0.24	23
24.06.2024	N/24/06/5-0342	0.26	<0.1	<0.5	<0.5	0.28	21
25.06.2024	N/24/06/5-0453	0.30	<0.1	<0.5	<0.5	0.38	23
imits for Industrial,	Terral Alberta Tax	1.0	20	6	1	4	180
Residential, Rural and other Areas		24 Hrs	Annual	Annual	Annual	1 Hr	1 Hr

Note: * Parameters monitored for period of 1 hr

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name and Address of the Industry: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Station at & Code : A4, Near Plant Railway Siding

Duration 24 Hrs Issue date : 01.07.2024 Reference IS 5182 & Lab SOP

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), μg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	PM _{10,} (μg/m³)	PM _{2.5,} (μg/m ³)	Ammonia (NH ₃), μg/m ³	Benzene (C ₆ H ₆), μg/m ²
07.06.2024	N/24/06/2-0117	12	13	48	25	<20	<1
08.06.2024	N/24/06/3-0027	6	9	45	26	<20	<1
10.06.2024	N/24/06/4-0015	12	16	48	32	<20	<1
11.06.2024	N/24/06/4-0073	10	13	39	23	<20	<1
21.06.2024	N/24/06/5-0132	8	14	54	24	<20	<1
22.06.2024	N/24/06/5-0219	11	14	36	21	<20	<1
24.06.2024	N/24/06/5-0343	7	11	41	25	<20	<1
25.06.2024	N/24/06/5-0454	10	15	53	30	<20	<1
imits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Lab Code	Lead (Pb), μg/m³	Nickel (Ni), ng/m³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), μg/m ³
N/24/06/2-0117	0.17	<0.1	<0.5	<0.5	0.27	20
N/24/06/3-0027	0.22	<0.1	<0.5	<0.5	0.26	28
N/24/06/4-0015	0.16	<0.1	<0.5	<0.5	0.38	23
N/24/06/4-0073	0.14	<0.1	<0.5	<0.5	0.37	20
N/24/06/5-0132	0.18	<0.1	<0.5	<0.5	0.41	<20
N/24/06/5-0219	0.11	<0.1	<0.5	<0.5	0.29	24
N/24/06/5-0343	0.13	<0.1	<0.5	<0.5	0.20	20
N/24/06/5-0454	0.15	<0.1	<0.5	<0.5	0.22	- 21
	1.0	20	6	1	4	180
Residential, Rural and other Areas		Annual	Annual	Annual	1 Hr	1 Hr
	N/24/06/2-0117 N/24/06/3-0027 N/24/06/4-0015 N/24/06/4-0073 N/24/06/5-0132 N/24/06/5-0219 N/24/06/5-0343 N/24/06/5-0454	Lab Code (Pb), μg/m³ N/24/06/2-0117 0.17 N/24/06/3-0027 0.22 N/24/06/4-0015 0.16 N/24/06/5-0132 0.18 N/24/06/5-0219 0.11 N/24/06/5-0343 0.13 N/24/06/5-0454 0.15 1.0	Lab Code (Pb), μg/m³ Nickel (Ni), ng/m³ N/24/06/2-0117 0.17 <0.1	Lab Code (Pb), μg/m³ Nickel (Ni), ng/m³ (As), ng/m³ N/24/06/2-0117 0.17 <0.1	Lead (Pb), μg/m³ Nickel (Ni), ng/m³ Arsenic (As), ng/m³ Pyrene (BaP), ng/m³ N/24/06/2-0117 0.17 <0.1	Lab Code (Pb), μg/m³ Nickel (Ni), ng/m³ (As), ng/m³ Pyrene (BaP), ng/m³ Monoxide* (CO), mg/m³ N/24/06/2-0117 0.17 <0.1

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Govt. Analyst / Authorised Signatory



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TEST REPORT

Table No. 5

Analysis Report of Fugitive Emission

Report No.N013324065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.,

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by: Environmental Laboratory Representaive

Station at & Code : Near Battery Area (Coke Oven)

Duration : 08 Hrs Issue date : 01.07.2024

Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), μg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	SPM (μg/m³)	Lead (Pb), μg/m³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) μg/m ³
21.06.2024	N/24/06/5-0133	12	18	324	0.16	0.45	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10	2
		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr	8 Hrs

Note: * Parameters monitored for period of 1 hr

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TEST REPORT

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8 Hrs

Analysis Report of Fugitive Emission

Report No.N013424065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.,

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by: Environmental Laboratory Representaive

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

Duration : 08 Hrs Issue date : 01.07.2024

Reference IS 5182 & Lab Sop

Carbon Benzo (a) Sulphur Nitrogen SPM Lead (Pb), Monoxide* **Pyrene** Dioxide Dioxide Lab Code **Date of Sampling** (CO),μg/m³ (BaP) μg/m³ $(\mu g/m^3)$ (NO_2) , $\mu g/m^3$ (SO_2) , $\mu g/m^3$ mg/m³ 21.06.2024 N/24/06/5-0134 10 14 487 0.28 0.42 < 0.0005 Permissible limits for Fugitive Emissions 3000 10 2 150 120 2.0

8 Hrs

8 Hrs

8 Hrs

1 Hr

8 Hrs

Note: * Parameters monitored for period of 1 hr

as per G.S.R.277E

Dated on 31.03.2012

ARSHIYA KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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TEST REPORT

Table No. 7

Analysis Report of Fugitive Emission

Report No.N022024065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.,

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory Representaive

Station at & Code : Finished goods yard in between F3 & F5 (M&FA)

Duration : 08 Hrs Issue date : 01.07.2024

Reference IS 5182 & Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), μg/m ³	SPM (μg/m³)	Lead (Pb), μg/m³	Carbon Monoxide* (CO), mg/m ³
22.06.2024	N/24/06/5-0220	11	13	425	0.27	0.46
	Permissible limits for Fugitive Emissions as per G.S.R.277E		120	3000	2.0	10
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr

Note: * Parameters monitored for period of 1 hr

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Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 8

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Analysis Report of Fugitive Emission

Report No.N022124065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.,

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Sample Collected by : Environmental Laboratory Representaive

Station at & Code : Raw martial storage area (M&FA)

Duration : 08 Hrs Issue date : 01.07.2024 Reference IS 5182 & Lab Sop

Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), μg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	SPM (μg/m³)	Lead (Pb), μg/m³	Carbon Monoxide* (CO), mg/m
22.06.2024	N/24/06/5-0221	7	9	385	0.33	0.38
Permissible limits for Fugitive Emissions as per G.S.R.277E Dated on 31.03.2012		150	120	3000	2.0	10
		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr

Note: * Parameters monitored for period of 1 hr

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Govt. Analyst / Authorised Signatory



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TEST REPORT

Table No. 9

Stack Monitoring Report

Report No. N013524065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Location

: ARC Furnace area

Stack ID

: Stack Attached to Furnace - 3

Sample Collected by

: Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of Sample

Collected

: Emissions from stack collected through stack sample VSS1

Date of Collection

: 21.06.2024

Date of Sample Receipt

: 22.06.2024 : N/24/06/5-0135

. 01 07 2024

	STACK DET	TAILS
1	Fuel Used	
2	AmbientTemperature (°C)	33
3	Stack Temperature (°C)	124
4	Velocity (m/s)	8.03
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m²)	96052
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)	96774
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024

	Pollutional Parameters (Result)				
SI.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	30.55	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	20.11	23	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO2)	mg/Nm ³	24.21		IS: 11255(Part-7) 2017
4	СО	%	0.31		flue gas analyser
5	Oxygen (O2)	%	15.88	- 1906	flue gas analyser

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TEST REPORT

Table No. 10

Stack Monitoring Report

Report No. N013624065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Location : Coke Oven Plant

: Stack Attached to WHRB -01 Stack ID

Sample Collected by

: 21.06.2024

: Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of Sample

Collected

Date of Collection

: Emissions from stack collected through stack sample VSS1

Date of Sample Receipt : 22.06.2024 Lab Code : N/24/06/5-0136

Issue date : 01.07.2024

	STACK DET	TAILS
1	Fuel Used	
2	AmbientTemperature (°C)	33
3	Stack Temperature (°C)	250
4	Velocity (m/s)	9.5
5 Stack Height (M) 60		60
6 Stack Diameter (M) 4.6		4.6
7	Cross Sectional Area in meter square (m²)	16.62647
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)	274120
9	Sample Condition When Received	Satisfactory
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
11	Serial No. of the Equipment	338 DTH 14
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024
	Pollutional Paramet	ters (Result)

	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
SI.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method		
1	Particulate Matter	mg/Nm ³	30.22	50	IS: 11255(Part-1) 2014		
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	60.21	800	IS: 11255(Part-2) 2014		
3	Nitrogen Dioxide (NO2)	mg/Nm ³	556.85	500	IS: 11255(Part-7) 2017		
4	СО	%	0.52	Max1%	flue gas analyser		
5	Oxygen (O2)	%	9.12		flue gas analyser		

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TEST REPORT

Table No. 11

Stack Monitoring Report

Report No. N013724065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

: Coke Oven Plant Location

Stack ID : Stack Attached to WHRB -02

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

: N/24/06/5-0137

Particulars of Sample

: Emissions from stack collected through stack sample VSS1

Collected

Lab Code

Date of Collection : 21.06.2024 Date of Sample Receipt : 22.06.2024

Issue date : 01.07.2024

	STACK DETAILS				
1	Fuel Used				
2	AmbientTemperature (°C)	33			
3	Stack Temperature (°C)	240			
4	Velocity (m/s)	8.83			
5	Stack Height (M)	60			
6	Stack Diameter (M)	4.6			
7	Cross Sectional Area in meter square (m²)	16.62647			
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)	278500			
9	Sample Condition When Received	Satisfactory			
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1			
11	Serial No. of the Equipment	338 DTH 14			
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.2024			
	D. W. C I.D.				

	Pollutional Parameters (Result)				
SI.No	Parameters	Unit Results		Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	26.24	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	60.25	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO2)	mg/Nm ³	73.25	500	IS: 11255(Part-7) 2017
4	СО	%	0.41	Max1%	flue gas analyser
5	Oxygen (O2)	%	7.21	The second second	flue gas analyser

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TEST REPORT

Table No. 12

Stack Monitoring Report

Report No. N022224065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Location : Coke Oven Plant

Stack ID : Stack Attached to Coal Crushing

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of Sample

Collected

: Emissions from stack collected through stack sample VSS1

Date of Collection : 22.06.2024 **Date of Sample Receipt** : 24.06.2024 Lab Code : N/24/06/5-0222

Issue	date	: 01.07.2	024		
William.			STACK DET	AILS	
1	Fuel Used				
2	AmbientTemperatu	re (°C)		32	
3	Stack Temperature (°C)			74	
4	Velocity (m/s)			7.0	5
5	Stack Height (M)	7		15	
6	Stack Diameter (M)			0.7	
7	Cross Sectional Area in meter square (m²)			0.4419	
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)			9952	
9	Sample Condition When Received			Satisfactory	
10	Model of the Equipment used for Monitoring			Vayubodhan Stack	Sampler VSS1
11	Serial No. of the Eq	uipment		338 DTH 14	
12	Calibration done on and due on			Done on 19.11.2022 and	d Due on 18.11.2024
		Pollutio	nal Paramet	ers (Result)	
SI.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method

35.33

mg/Nm³

50

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IS: 11255(Part-1)

2014

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TEST REPORT

Stack Monitoring Report

Report No. N022324065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Location : Coke Oven Plant

Stack ID : Stack Attached to Coke Cutter

Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services)

Particulars of Sample

Collected

: Emissions from stack collected through stack sample VSS1

Date of Collection : 22.06.2024 **Date of Sample Receipt** : 24.06.2024 Lab Code : N/24/06/5-0223 Issue date : 01.07.2024

.0000	uuto	. 01101120			
		S	TACK DET	AILS	
1	Fuel Used				
2	AmbientTemperature	(°C)		3	2
3	Stack Temperature ((C)		7:	2
4	Velocity (m/s)			6.6	66
5	Stack Height (M)			1:	5
6	Stack Diameter (M)			0.	7
7	Cross Sectional Area in meter square (m²)			0.38	350
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)			7241	
9	Sample Condition When Received			Satisfactory	
10	10 Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1	
11	Serial No. of the Equipment			338 D	ГН 14
12	Calibration done on and due on			Done on 19.11.2022 a	nd Due on 18.11.2024
	W. EXPLOSION CO.	Pollution	al Paramet	ers (Result)	re or as election
SI.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	32.65	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 14

Stack Monitoring Report

Report No. N022424065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Location : Coke Oven Plant

Stack ID : Stack Attached to Coke Screening & Store

: Environmental Laboratory (Unit of Mineral Engineering Services) Sample Collected by

Particulars of Sample

Collected

: Emissions from stack collected through stack sample VSS1

Date of Collection : 22.06.2024 **Date of Sample Receipt** : 24.06.2024 Lab Code : N/24/06/5-0224

Issue date : 01.07.2024

STACK DETAILS

1	Fuel Used		
2	AmbientTemperature (°C)	32	
3	Stack Temperature (°C)	gsystemas 73	
4	Velocity (m/s)	WHI POTOU 9.13	
5	Stack Height (M)	474 T. A T. 115 T. 2	
6	Stack Diameter (M)	0.7	
7	Cross Sectional Area in meter square (m ²)	0.3850	
8	Quanitity of flue Gas Discharged into atmosphere (Nm³/hr)	6737	
9	Sample Condition When Received	Satisfactory	
10	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1	
11	Serial No. of the Equipment	338 DTH 14	
12	Calibration done on and due on	Done on 19.11.2022 and Due on 18.11.202	
	Pollutional Parame	ters (Result)	
		Televanes Limite	

		Pollution	al Paramet	ers (Result)	
SI.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm ³	38.97	50	IS: 11255(Part-1) 2014

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TEST REPORT

Table No. 15

Stack Monitoring Report

Report No: N027724065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Stack ID : DG Set 750 KVA (Coke Oven)

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 24.06.2024

: Emissions from stack collected through stack Particulars of Sample Collected

sample VSS1

Date of Sample Receipt : 25.06.2024

Lab Code : N/24/06/5-0277

Issue date : 01.07.2024

issue u	ate	. 01.07.202		
		STACK I	DETAILS	
1	1 Fuel Used			Diesel
2	AmbientTemperature	(°C)	ne' manai	33
3	Stack Temperature (°C	C) Pice No	use, Arti	188
. 4	Velocity (m/s)	Z/P TATT	ATTACES	9.12
5	Stack Height (M)			15.0
6	Stack diameter (M)	0.30		
7	Quanitity of flue Gas I atmosphere (Nm ³ /hr)	2023		
8	Sample Condition When Received			Satisfactory
9	Model of the Equipment used for Monitoring			Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment			338 DTH 14
11	11 Calibration done on and due on			Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysi	s Method	0. 2516	IS 11255 & flue gas analyser
	Pol	lutional Para	meters (Res	ult)
SI.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.080	<0.2
2	CO	g/Kw-hr	0.38	<3.5

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

g/Kw-hr

0.42

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<4.0

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in

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TEST REPORT

Table No. 16

Stack Monitoring Report

Report No.: N027824065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Stack ID : DG Set 250 KVA at VHT-2

Sample Collected by : Environmental Laboratory Representative

Date of Collection : 24.06.2024

Particulars of Sample Collected : Emissions from stack collected through stack

sample VSS1

: 25.06.2024 **Date of Sample Receipt** Lab Code : N/24/06/5-0278

Issue date : 01.07.2024

STACK DETAILS

		STACK	DETAILS	
1	Fuel Used .			Diesel
2	AmbientTemperature	(°C)		33
3	Stack Temperature (C)		161
4	Velocity (m/s)			11.90
5	Stack Height (M)			5.0
6	Stack diameter (M)			0.20
7	Quanitity of flue Gas atmosphere (Nm³/hr)	Discharged in	nto	980
8	Sample Condition Wh	en Received		Satisfactory
9	Model of the Equipme	ent used for N	Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equi	pment		338 DTH 14
11	Calibration done on a	nd due on		Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analys	is Method		IS 11255 & flue gas analyser
	Po	llutional Para	meters (Res	ult)
SI.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.06	<0.2
2	СО	g/Kw-hr	0.23	<3.5
3	Nox +HC	g/Kw-hr	0.18	<4.0

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

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TEST REPORT

Table No. 17

Stack Monitoring Report

Report No.: N029924065

Name and Address of the Industry: Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Stack ID

: DG Set 250 KVA at New baghouse

Sample Collected by

: Environmental Laboratory Representative

Date of Collection

: 25.06.2024

Particulars of Sample Collected

: Emissions from stack collected through stack

sample VSS1

Date of Sample Receipt

: 27.06.2024

Lab Code

: N/24/06/5-0299

Issue date

: 01.07.2024

	DETA	

		STACK	DETAILS	
1	Fuel Used		da ne man	Diesel
2	AmbientTemperature	(°C)		33
3	Stack Temperature (0	C)		230
4	Velocity (m/s)		HOLL IN	15.82
5	Stack Height (M)			5.0
6	Stack diameter (M)			0.20
7	Quanitity of flue Gas atmosphere (Nm³/hr)	Discharged ir	nto	1192
8	Sample Condition Wh	en Received		Satisfactory
9	Model of the Equipme	ent used for N	onitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equi	pment	. Tributa	338 DTH 14
11	Calibration done on a	nd due on	ia i veste	Done on 19.11.2022 and Due on 18.11.2024
12	Sampling and Analysi	s Method		IS 11255 & flue gas analyser
	Pol	Iutional Para	meters (Res	ult)
SI.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.09	<0.2
2	СО	g/Kw-hr	0.32	<3.5
3	Nox +HC	g/Kw-hr	0.26	<4.0

as per KSPCB

INFERENCE

Report Status - The measured values for the above parameters for those standards have been specified were observed to be within the said standards

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TEST REPORT

Table No. 18

Stack Monitoring Report

Report No.: N030024065

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant),

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,

Stack ID

: DG Set 625 KVA (Power Plant)

Sample Collected by

: Environmental Laboratory Representative

Date of Collection

: 25.06.2024

Particulars of Sample Collected

: Emissions from stack collected through stack

sample VSS1

Date of Sample Receipt

: 27.06.2024

Lab Code

: N/24/06/5-0300

Issue date

: 01.07.2024

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		STACK I	DETAILS		
1	Fuel Used			Diesel	
2	AmbientTemperature (33			
3	Stack Temperature (°C	tack Temperature (°C)			
4	Velocity (m/s)			19.59	
5	Stack Height (M)			15.0	
6	Stack diameter (M)			0.30	
8	Quanitity of flue Gas D atmosphere (Nm³/hr)	2032			
9	Sample Condition Whe	Satisfactory			
10	Model of the Equipmen	Vayubodhan Stack Sampler VSS1			
11	Serial No. of the Equip	338 DTH 14			
12	Calibration done on an		Done on 19.11.2022 and Due on 18.11.2024		
13	Sampling and Analysis	Method		IS 11255 & flue gas analyser	
	Pollu	itional Para	meters (Res	ult)	
SI.No	Parameters	Unit	Results	Standard	
1	Particulate Matter	g/Kw-hr	0.08	<0.2	

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

0.25

0.23

g/Kw-hr

g/Kw-hr

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TEST REPORT

Table No. 19

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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 (Unit of Mineral Engineering Services)

Date of sample collection

: 21.06.2024

Date of sample receipt

: 22.06.2024

Issue Date

: 01.07.2024

Sampling & Test Method

: IS:9989

		Day (06.00 Am to 10.00 Pm)			Night (10.00 Pm to 06.00 Am)			
Code No.	Monitoring stations							
	-	L _{min}	L_{eq}	L max	L _{min}	L_{eq}	L _{max}	
Core zone								
N1	Near Existing AAQMS 01 (SMIORE Schools)	36.5	55.4	63.2	34.0	43.2	50.1	
N2	Existing Water Reservoir (Near WTP Plant)	38.0	52.7	58.1	34.8	44.0	48.3	
	Buffer zone							
N3	Galemmanagudi	39.0	51.7	58.2	35.0	43.5	46.8	
N4	Vysanakere Village	37.0	50.7	55.8	34.0	45.0	48.0	
N5	Hanumanhalli	39.6	52.5	57.0	34.0	43.4	47.5	

Permissible Limits of Ambient

Noise Levels as per CPCB Guidelines

Leq. Limit dB(A)

DayNightIndustrial areas7570Commercial area6555Residential area5545

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Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084.

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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 Date of sample receipt

: 24.06.2024 : 25.06.2024

Issue Date

: 01.07.2024

Code	Manitavina atationa	P. Continues	Day			
No.	Monitoring stations	L _{min}	L _{eq}	L max	Remarks	
	Corezone	AND REAL PROPERTY.				
1	ARC Furnace -3 area	41.0	57.6	66.3	During operation	
2	ARC Furnace -5 area	37.0	61.2	71.0	During operation	
3 .	Near WHRB -1	38.6	53.0	58.0	During operation	
4	Near WHRB -2	41.0	54.0	62.3	During operation	
5	Near Power plant turbine	36.0	52.5	57.0	During shut down	

Permissible limits as per ILO Code of Practice

For Unprotected ear - 8 hrs working shift

Permissible Limits of Ambient Noise Levels as per CPCB Guidelines

Warning limit - 85 dB(A)

Danger limit - 90 dB(A)

Leq. Limit dB(A)

Worker not to be exposed for more than 115 dB(A) With ear protection -

Day Night Industrial areas 75 70

130 dB(A) 'Impulse' or 120 dB(A) 'Fast' No entry when noise level exceeds 140 dB(A) Commercial area Residential area

65 55 55 45

Dy. T.M. - Chemical

1

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in



William St.

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. 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
Date of sample receipt

Issue Date

: 19.12.2023: 20.12.2023

: 02.01.2024

0.1.			Parameters Sound level in dB(A)		
Code	Sample Location	Remarks			
No.			L _{eq}	CPCB Std.	
N1	Stack Attached to 750 KVA (Coke Oven)	Monitoring done at	73.1		
N2	Stack Attached to 250 KVA at VHT-		67.5	75.0	
N3	Stack Attached to 250 KVA at New Baghouse	1mts distance from DG Set	63.4		
N4	Stack Attached to 625 KVA (Power Plant)		71.1	1907:08	

Note

- 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 specifed 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 nosie and corresponds to frequency responce characteristic of human ear.

INFERENCE

As per CPCB standards,

Report status: - The measured values for the above locations are within the standards

ARSHIYA KOUSAR Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

948, 2nd Cross, St. Thomas Town Post, Kammanahalli, Bangalore - 560 084. Phone: 080-25432969 Tel/fax: 25432968. E-mail: mesbng@gmail.com, www.envtest.in

Note: This report is subject to the terms and conditions mentioned overleaf.



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TEST REPORT

Report No: N019324065

Name of the Client

: M/s. Sandur Manganese & Iron Ores Limited

Name of the Project

: Iron & Steel Plant at Vyasanakere village,

Hosapete Taluk, Ballari District, Karnataka

Particulars of sample collected

: 50 KLD STP Water

Date of sample collection

: 22.06.2024

Lab Code Issue Date

: N/24/06/5-0193

: 29.06.2024

SI. No.	Parameters	units	Results	Sewage Effluent Discharge Standards	Method of Testing
1	рН		6.95	6.0 to 8.5	IS 3025 (P-11)2017
3	Total Suspended Solids, at 105°C	mg/l	10	100	IS 3025 (P-16)1984 RA 2017
2	Biochemical Oxygen Demand BOD ₃ 27 ⁰ C	mg/l	18	30	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	46	250	IS 3025 (P-58) 2006 RA 2017
4	Total Kjedahl Nitrogen,	mg/l	4.2		IS 3025 (Part-34)
5	Fecal coliform	MPN/100ml	<1.8	<1000	IS:15185 :2016 RA 2021

BINU MANI T.M. - Microbiology

Govt. Analyst / Authorised Signatory

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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