

The Sandur Manganese & Iron Ores Limited

(An ISO 9001:2015; ISO 14001:2015 and 45001:2018 certified company)
CIN: L85110KA1954PLC000759; Website: www.sandurgroup.com

REGISTERED OFFICE

'SATYALAYA', No.266
Ward No.1, Palace Road
Sandur - 583 119, Ballari District
Karnataka, India
Tel: +91 8395 260301/ 283173-199
Fax: +91 8395 260473



CORPORATE OFFICE

'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India
Tel: +91 80 4152 0176 - 79 / 4547 3000
Fax: +91 80 4152 0182

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

11th November 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 **October-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

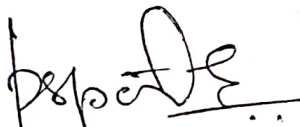
Dear Sir,

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 September-2024 for your kind perusal.

Kindly acknowledge receipt of the same.

Thanking you,

For The Sandur Manganese & Iron Ores Limited,



Parvatareddy Patil
Senior General Manager-Plant



ಸ್ವೀಕೃತಿ
ಕ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಹೊಸಪೇಟೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 11-11-2024 ಸಹಿ

Encl: Environmental Monitoring Report **October-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

October, 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

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

Recognised by BIS, FSSAI, ISO:45001:2018 Certified Laboratory

Recognised by MoEFCC(CPCB) under E(P) Act 1986 recognition valid upto 23.05.2025

TEST REPORT

AMBIENT AIR QUALITY

Table No. 1

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)

Instrument Used : Envirotech APM 460BL Serial No. 2914-DTJ-2020
Envirotech APM -550, Serial No. 520-DTG-2017

Calibration due date of instrument : 24.03.2025

Duration : 24 Hrs

Issue date : 02.11.2024

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
04.10.2024	N/24/10/2-0100	10	12	43	27	<20	<1
05.10.2024	N/24/10/2-0174	11	14	49	28	<20	<1
07.10.2024	N/24/10/2-0249	11	14	56	28	<20	<1
08.10.2024	N/24/10/3-0171	9	7	36	18	<20	<1
18.10.2024	N/24/10/4-0221	11	18	40	24	<20	<1
19.10.2024	N/24/10/4-0284	10	12	46	25	<20	<1
21.10.2024	N/24/10/5-0043	12	15	52	27	<20	<1
22.10.2024	N/24/10/5-0047	13	17	49	27	<20	<1
28.10.2024	N/24/11/1-0032	8	11	54	27	<20	<1
29.10.2024	N/24/11/1-0072	11	13	50	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
04.10.2024	N/24/10/2-0100	0.15	<0.1	<0.5	<0.5	0.31	24
05.10.2024	N/24/10/2-0174	0.18	<0.1	<0.5	<0.5	0.22	20
07.10.2024	N/24/10/2-0249	0.18	<0.1	<0.5	<0.5	0.33	25
08.10.2024	N/24/10/3-0171	0.11	<0.1	<0.5	<0.5	0.23	20
18.10.2024	N/24/10/4-0221	0.20	<0.1	<0.5	<0.5	0.31	25
19.10.2024	N/24/10/4-0284	0.23	<0.1	<0.5	<0.5	0.26	30
21.10.2024	N/24/10/5-0043	0.13	<0.1	<0.5	<0.5	0.25	25
22.10.2024	N/24/10/5-0047	0.19	<0.1	<0.5	<0.5	0.35	31
28.10.2024	N/24/11/1-0032	0.28	<0.1	<0.5	<0.5	0.27	27
29.10.2024	N/24/11/1-0072	0.13	<0.1	<0.5	<0.5	0.29	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

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

Govt. Analyst / Authorised Signatory

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 2

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)							
Instrument Used : Envirotech APM 460BL Serial No. 2913-DTJ-2020 Envirotech APM -550, Serial No. 89 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.11.2024							
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
04.10.2024	N/24/10/2-0101	12	15	45	23	<20	<1
05.10.2024	N/24/10/2-0175	9	11	48	25	<20	<1
07.10.2024	N/24/10/2-0250	10	12	48	25	<20	<1
08.10.2024	N/24/10/3-0172	11	14	58	28	<20	<1
18.10.2024	N/24/10/4-0222	11	15	51	27	<20	<1
19.10.2024	N/24/10/4-0285	9	12	55	32	<20	<1
21.10.2024	N/24/10/5-0044	7	10	56	27	<20	<1
22.10.2024	N/24/10/5-0048	10	14	53	26	<20	<1
28.10.2024	N/24/11/1-0033	6	9	47	23	<20	<1
29.10.2024	N/24/11/1-0073	11	13	50	27	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
04.10.2024	N/24/10/2-0101	0.18	<0.1	<0.5	<0.5	0.31	25
05.10.2024	N/24/10/2-0175	0.25	<0.1	<0.5	<0.5	0.22	25
07.10.2024	N/24/10/2-0250	0.22	<0.1	<0.5	<0.5	0.42	28
08.10.2024	N/24/10/3-0172	0.18	<0.1	<0.5	<0.5	0.33	28
18.10.2024	N/24/10/4-0222	0.15	<0.1	<0.5	<0.5	0.42	20
19.10.2024	N/24/10/4-0285	0.11	<0.1	<0.5	<0.5	0.46	27
21.10.2024	N/24/10/5-0044	0.17	<0.1	<0.5	<0.5	0.38	25
22.10.2024	N/24/10/5-0048	0.15	<0.1	<0.5	<0.5	0.28	28
28.10.2024	N/24/11/1-0033	0.22	<0.1	<0.5	<0.5	0.26	20
29.10.2024	N/24/11/1-0073	0.21	<0.1	<0.5	<0.5	0.38	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

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

Govt. Analyst / Authorised Signatory

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 3

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							
Instrument Used : Envirotech APM 460BL Serial No. 2905-DTJ-2020 Envirotech APM -550, Serial No.86 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.11.2024							
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
04.10.2024	N/24/10/2-0102	9	11	41	24	<20	<1
05.10.2024	N/24/10/2-0176	9	10	37	23	<20	<1
07.10.2024	N/24/10/2-0251	9	13	51	27	<20	<1
08.10.2024	N/24/10/3-0173	10	11	43	22	<20	<1
18.10.2024	N/24/10/4-0223	11	16	40	20	<20	<1
19.10.2024	N/24/10/4-0286	10	11	42	25	<20	<1
21.10.2024	N/24/10/5-0045	10	9	53	28	<20	<1
22.10.2024	N/24/10/5-0049	11	13	45	24	<20	<1
28.10.2024	N/24/11/1-0034	8	11	48	26	<20	<1
29.10.2024	N/24/11/1-0074	9	10	39	21	<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
04.10.2024	N/24/10/2-0102	0.15	<0.1	<0.5	<0.5	0.44	20
05.10.2024	N/24/10/2-0176	0.19	<0.1	<0.5	<0.5	0.31	20
07.10.2024	N/24/10/2-0251	0.11	<0.1	<0.5	<0.5	0.22	24
08.10.2024	N/24/10/3-0173	0.13	<0.1	<0.5	<0.5	0.31	28
18.10.2024	N/24/10/4-0223	0.11	<0.1	<0.5	<0.5	0.22	21
19.10.2024	N/24/10/4-0286	0.15	<0.1	<0.5	<0.5	0.35	20
21.10.2024	N/24/10/5-0045	0.11	<0.1	<0.5	<0.5	0.21	22
22.10.2024	N/24/10/5-0049	0.19	<0.1	<0.5	<0.5	0.28	25
28.10.2024	N/24/11/1-0034	0.21	<0.1	<0.5	<0.5	0.29	20
29.10.2024	N/24/11/1-0074	0.28	<0.1	<0.5	<0.5	0.35	22
Limits for Industrial , Residential, Rural and other Areas		1.0 24 Hrs	20 Annual	6 Annual	1 Annual	4 1 Hr	180 1 Hr

Note : * Parameters monitored for period of 1 hr

Arshiya Kousar
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Dy. T.M. - Chemical

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TEST REPORT

AMBIENT AIR QUALITY

Table No. 4

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							
Instrument Used : Envirotech APM 460BL Serial No. 2216-DTI-2017 Envirotech APM -550, Serial No. 87 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 02.11.2024							
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
04.10.2024	N/24/10/2-0103	9	13	48	25	<20	<1
05.10.2024	N/24/10/2-0177	10	12	57	30	<20	<1
07.10.2024	N/24/10/2-0252	11	15	55	30	<20	<1
08.10.2024	N/24/10/3-0174	12	16	53	28	<20	<1
18.10.2024	N/24/10/4-0224	7	11	49	23	<20	<1
19.10.2024	N/24/10/4-0287	9	10	54	27	<20	<1
21.10.2024	N/24/10/5-0046	7	9	44	23	<20	<1
22.10.2024	N/24/10/5-0050	9	12	35	22	<20	<1
28.10.2024	N/24/11/1-0035	8	11	50	26	<20	<1
29.10.2024	N/24/11/1-0075	11	12	41	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
04.10.2024	N/24/10/2-0103	0.16	<0.1	<0.5	<0.5	0.33	22
05.10.2024	N/24/10/2-0177	0.22	<0.1	<0.5	<0.5	0.25	24
07.10.2024	N/24/10/2-0252	0.18	<0.1	<0.5	<0.5	0.36	23
08.10.2024	N/24/10/3-0174	0.11	<0.1	<0.5	<0.5	0.24	22
18.10.2024	N/24/10/4-0224	0.21	<0.1	<0.5	<0.5	0.22	23
19.10.2024	N/24/10/4-0287	0.19	<0.1	<0.5	<0.5	0.29	23
21.10.2024	N/24/10/5-0046	0.11	<0.1	<0.5	<0.5	0.31	22
22.10.2024	N/24/10/5-0050	0.17	<0.1	<0.5	<0.5	0.26	25
28.10.2024	N/24/11/1-0035	0.11	<0.1	<0.5	<0.5	0.35	20
29.10.2024	N/24/11/1-0075	0.19	<0.1	<0.5	<0.5	0.38	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

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

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TEST REPORT Stack Monitoring Report

Table No. 5

Report No. N029924104

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: ARC Furnace area
Stack ID	: Stack Attached to Furnace - 3
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Collection	: 21.10.2024
Date of Sample Receipt	: 22.10.2024
Lab Code	: N/24/10/4-0299
Issue date	: 02.11.2024

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	28
3	Stack Temperature (°C)	98
4	Velocity (m/s)	5.07
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m ²)	65381
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	99846
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	36.47	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	13.85	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	18.33	--	IS: 11255(Part-7) 2017
4	CO	%	0.31	--	flue gas analyser
5	Oxygen (O ₂)	%	14.11	--	flue gas analyser

Arshiya K D Usar
ARSHIYA KDUSAR
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TEST REPORT

Table No. 6

Stack Monitoring Report

<p>Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,</p> <p>Location : Coke Oven Plant</p> <p>Stack ID : Stack Attached to WHRB -01</p> <p>Remarks - Shutdown</p>
<p>Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,</p> <p>Location : Coke Oven Plant</p> <p>Stack ID : Stack Attached to WHRB -02</p> <p>Remarks - Shutdown</p>
<p>Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,</p> <p>Location : Coke Oven Plant</p> <p>Stack ID : Stack Attached to Coal Crushing</p> <p>Remarks - Shutdown</p>
<p>Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,</p> <p>Location : Coke Oven Plant</p> <p>Stack ID : Stack Attached to Coke Cutter</p> <p>Remarks - Shutdown</p>
<p>Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,</p> <p>Location : Coke Oven Plant</p> <p>Stack ID : Stack Attached to Coke Screening & Store</p> <p>Remarks - Shutdown</p>

Arshiya Kousar
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TEST REPORT

Table No. 7

AMBIENT NOISE LEVEL DATA

Report No. ELMES132410

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,

Particulars of Sample Collected : Ambient Noise Level collected through Sound
Level Meter (HTC SL-1352 Data Logger)

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

Date of sample collection : 22.10.2024

Date of sample receipt : 23.10.2024

Issue Date : 02.11.2024

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	68.0	78.0	34.0	49.0	57.0
N2	Existing Water Reservoir (Near WTP Plant)	38.0	51.8	60.0	34.0	45.4	51.8
Buffer zone							
N3	Galemmanagudi	38.0	49.6	56.8	34.2	43.9	48.2
N4	Vysanakere Village	41.0	50.6	55.8	34.0	44.7	47.5
N5	Hanumanhalli	5.0	53.2	59.0	33.5	41.2	46.0

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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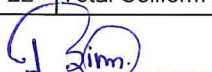
TEST REPORT

Table No.8

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
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services)
Particulars of sample collected	: SW3 - Nala water inside plant
Date of sample collection	: 19.10.2024
Date of sample receipt	: 21..10.2024
Issue Date	: 29.10.2024
Ref:IS	: 2296, 1982 Class C Norms (Stream Water Standards)

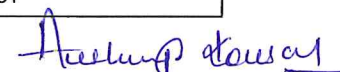
SI No.	Lab Code	N/24/10/4-0296	Limits For Stream Water Standards	Method of Testing
	Samples Code	SW1		
	Parameters	Results		
1	Colour (Hazen Units), Max	10	300	IS:3025(Part-4)2021
2	pH	6.49	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.1	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	178	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	6.80	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	14	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.56	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	0.15	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	80	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	0.2	IS:3025(P-2) 2019
20	Hexavalent Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (mpn/100ml)	230	5000	IS:1622:1981

"END OF REPORT"


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TEST REPORT

Report No : N029524104

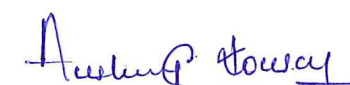
Name of the Client	: M/s. Sandur Manganese & Iron Ores Limited
Name of the Project	: Iron & Steel Plant at Vyasanakere village, Hosapete Taluk, Ballari District, Karnataka
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 19.10.2024
Lab Code	: N/24/10/4-0295
Issue Date	: 29.10.2024
Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes	

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.60	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₃ 27 ^o C	mg/l	4.57	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	24	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105 ^o C	mg/l	30	<20	IS 3025 (P-16)1984 RA 2017
5	Ammonium (H4-N)	mg/l	0.5	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	5.6	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	<1.8	<100	IS:15185 :2016 RA 2021


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