

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/2024-25/086

10th February 2025

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: Environmental monitoring report of The Sandur Manganese & Iron Ores Limited, Vyasanakere, Hosapete for the month of **January-2025**.

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

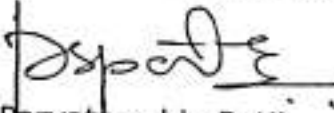
Dear Sir,

With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasanakere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period **January-2025** for your kind perusal.

Kindly acknowledge receipt of the same and oblige.

Thanking you,

For The Sandur Manganese & Iron Ores Limited



Parvatareddy Patil
Senior General Manager-Plant



ಸ್ವೀಕೃತಿ
ಕೆ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ, ವಿಜಯನಗರ ಮೊಸರೋಡೆ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 10/02/2025

Encl: Environmental Monitoring Report **January-2025**

MINES OFFICE: Deogiri - 583112, Sandur Taluk, Ballari District
Tel: +91 8395 271025 / 28 / 29 / 40; Fax: +91 8395 271066

PLANT OFFICE: Metal & Ferroalloy Plant, Vyasanakere, Mariyammanahalli - 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

January, 2025

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 LLP)							
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 : 03.02.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
03.01.2025	N/25/01/02-0029	11	18	62	34	<20	<1
04.01.2025	N/25/01/02-0067	14	20	58	32	<20	<1
10.01.2025	N/25/01/03-0172	9	15	46	26	<20	<1
11.01.2025	N/25/01/03-0250	11	14	59	30	<20	<1
13.01.2025	N/25/01/03-0447	7	11	55	28	<20	<1
14.01.2025	N/25/01/03-0501	12	17	48	25	<20	<1
24.01.2025	N/25/01/05-0019	9	12	60	33	<20	<1
25.01.2025	N/25/01/05-0078	11	14	53	27	<20	<1
27.01.2025	N/25/01/5-0150	7	11	57	30	<20	<1
28.01.2025	N/25/01/5-0218	10	12	55	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
03.01.2025	N/25/01/02-0029	0.11	<0.1	<0.5	<0.5	0.29	21
04.01.2025	N/25/01/02-0067	0.15	<0.1	<0.5	<0.5	0.27	22
10.01.2025	N/25/01/03-0172	0.27	<0.1	<0.5	<0.5	0.31	23
11.01.2025	N/25/01/03-0250	0.25	<0.1	<0.5	<0.5	0.25	20
13.01.2025	N/25/01/03-0447	0.23	<0.1	<0.5	<0.5	0.27	21
14.01.2025	N/25/01/03-0501	0.19	<0.1	<0.5	<0.5	0.21	25
24.01.2025	N/25/01/05-0019	0.15	<0.1	<0.5	<0.5	0.31	21
25.01.2025	N/25/01/05-0078	0.11	<0.1	<0.5	<0.5	0.28	25
27.01.2025	N/25/01/5-0150	0.17	<0.1	<0.5	<0.5	0.24	26
28.01.2025	N/25/01/5-0218	0.12	<0.1	<0.5	<0.5	0.33	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

M. Sachin Raju
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



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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 LLP)							
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 : 03.02.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
03.01.2025	N/25/01/02-0030	12	17	40	23	<20	<1
04.01.2025	N/25/01/02-0068	9	11	48	27	<20	<1
10.01.2025	N/25/01/03-0173	10	12	49	27	<20	<1
11.01.2025	N/25/01/03-0251	7	9	50	29	<20	<1
13.01.2025	N/25/01/03-0448	12	18	38	21	<20	<1
14.01.2025	N/25/01/03-0502	11	14	52	26	<20	<1
24.01.2025	N/25/01/05-0020	14	18	55	29	<20	<1
25.01.2025	N/25/01/05-0079	10	15	57	31	<20	<1
27.01.2025	N/25/01/5-0151	9	11	63	32	<20	<1
28.01.2025	N/25/01/5-0219	11	15	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
03.01.2025	N/25/01/02-0030	0.15	<0.1	<0.5	<0.5	0.28	27
04.01.2025	N/25/01/02-0068	0.16	<0.1	<0.5	<0.5	0.33	28
10.01.2025	N/25/01/03-0173	0.14	<0.1	<0.5	<0.5	0.25	23
11.01.2025	N/25/01/03-0251	0.12	<0.1	<0.5	<0.5	0.32	25
13.01.2025	N/25/01/03-0448	0.21	<0.1	<0.5	<0.5	0.23	21
14.01.2025	N/25/01/03-0502	0.19	<0.1	<0.5	<0.5	0.21	20
24.01.2025	N/25/01/05-0020	0.25	<0.1	<0.5	<0.5	0.23	26
25.01.2025	N/25/01/05-0079	0.24	<0.1	<0.5	<0.5	0.33	24
27.01.2025	N/25/01/5-0151	0.15	<0.1	<0.5	<0.5	0.25	27
28.01.2025	N/25/01/5-0219	0.17	<0.1	<0.5	<0.5	0.29	30
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

M. SACHIN RAJU
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 LLP)							
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 : 03.02.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
03.01.2025	N/25/01/02-0031	12	18	55	28	<20	<1
04.01.2025	N/25/01/02-0069	10	14	48	26	<20	<1
10.01.2025	N/25/01/03-0174	10	11	53	28	<20	<1
11.01.2025	N/25/01/03-0252	7	12	40	25	<20	<1
13.01.2025	N/25/01/03-0449	9	10	50	28	<20	<1
14.01.2025	N/25/01/03-0503	11	14	39	19	<20	<1
24.01.2025	N/25/01/05-0021	8	18	47	26	<20	<1
25.01.2025	N/25/01/05-0080	10	15	53	27	<20	<1
27.01.2025	N/25/01/5-0152	12	14	47	28	<20	<1
28.01.2025	N/25/01/5-0220	9	11	48	28	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
03.01.2025	N/25/01/02-0031	0.19	<0.1	<0.5	<0.5	0.32	20
04.01.2025	N/25/01/02-0069	0.22	<0.1	<0.5	<0.5	0.34	26
10.01.2025	N/25/01/03-0174	0.18	<0.1	<0.5	<0.5	0.22	20
11.01.2025	N/25/01/03-0252	0.11	<0.1	<0.5	<0.5	0.28	22
13.01.2025	N/25/01/03-0449	0.12	<0.1	<0.5	<0.5	0.35	25
14.01.2025	N/25/01/03-0503	0.15	<0.1	<0.5	<0.5	0.32	25
24.01.2025	N/25/01/05-0021	0.17	<0.1	<0.5	<0.5	0.34	21
25.01.2025	N/25/01/05-0080	0.13	<0.1	<0.5	<0.5	0.32	28
27.01.2025	N/25/01/5-0152	0.21	<0.1	<0.5	<0.5	0.33	26
28.01.2025	N/25/01/5-0220	0.14	<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

M.SACHIN RAJU
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 LLP)							
Station at & Code : A4, Near Plant Railway Siding							
Instrument Used : Envirotech APM 460BL Serial No. 2216-DT1-2017 Envirotech APM -550, Serial No. 87 DTJ2012							
Calibration due date of instrument : 24.03.2025							
Duration : 24 Hrs							
Issue date : 03.02.2025							
Reference IS 5182 & Lab SOP							
Date of Sampling	Lab Code	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ , (µg/m ³)	PM _{2.5} , (µg/m ³)	Ammonia (NH ₃), µg/m ³	Benzene (C ₆ H ₆), µg/m ³
03.01.2025	N/25/01/02-0032	10	14	50	28	<20	<1
04.01.2025	N/25/01/02-0070	14	20	56	29	<20	<1
10.01.2025	N/25/01/03-0175	13	18	42	24	<20	<1
11.01.2025	N/25/01/03-0253	9	11	52	27	<20	<1
13.01.2025	N/25/01/03-0450	11	14	55	28	<20	<1
14.01.2025	N/25/01/03-0504	10	16	58	33	<20	<1
24.01.2025	N/25/01/05-0022	11	18	48	25	<20	<1
25.01.2025	N/25/01/05-0081	7	14	39	19	<20	<1
27.01.2025	N/25/01/5-0153	10	13	57	31	<20	<1
28.01.2025	N/25/01/5-0221	11	14	63	34	<20	<1
Limits for Industrial , Residential, Rural and other Areas		80 24 Hrs	80 24 Hrs	100 24 Hrs	60 24 Hrs	400 24 Hrs	5 Annual

Date of Sampling	Lab Code	Lead (Pb), µg/m ³	Nickel (Ni), ng/m ³	Arsenic (As), ng/m ³	Benzo(a) Pyrene (BaP), ng/m ³	Carbon Monoxide* (CO), mg/m ³	Ozone* (O ₃), µg/m ³
03.01.2025	N/25/01/02-0032	0.22	<0.1	<0.5	<0.5	0.26	27
04.01.2025	N/25/01/02-0070	0.29	<0.1	<0.5	<0.5	0.29	25
10.01.2025	N/25/01/03-0175	0.25	<0.1	<0.5	<0.5	0.31	22
11.01.2025	N/25/01/03-0253	0.15	<0.1	<0.5	<0.5	0.24	24
13.01.2025	N/25/01/03-0450	0.19	<0.1	<0.5	<0.5	0.26	27
14.01.2025	N/25/01/03-0504	0.21	<0.1	<0.5	<0.5	0.31	26
24.01.2025	N/25/01/05-0022	0.27	<0.1	<0.5	<0.5	0.21	22
25.01.2025	N/25/01/05-0081	0.11	<0.1	<0.5	<0.5	0.35	27
27.01.2025	N/25/01/5-0153	0.15	<0.1	<0.5	<0.5	0.22	24
28.01.2025	N/25/01/5-0221	0.16	<0.1	<0.5	<0.5	0.30	24
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

M. SACHIN RAJU
T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

Table No. 5

Stack Monitoring Report

Report No. N0320250103

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 LLP)
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Collection	: 13.01.2025
Date of Sample Receipt	: 15.01.2025
Lab Code	: N/25/01/03-0380
Issue date	: 03.02.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	130
4	Velocity (m/s)	6.53
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m^2)	95733
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	79028
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	Due on 15.07.2025

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Tolerance Limits Ref - G.S.R. 227(E) dated 31.03.2012	Test Method
1	Particulate Matter	mg/Nm^3	30.21	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2)	mg/Nm^3	15.85	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	20.33	--	IS: 11255(Part-7) 2017
4	CO	%	0.33	--	flue gas analyser
5	Oxygen (O_2)	%	16.21	--	flue gas analyser

M. Sachin Raju
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T.M. - Chemical

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TEST REPORT

Table No. 6

Stack Monitoring Report

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
Remarks - Shutdown	

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
Remarks - Shutdown	

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
Remarks - Shutdown	

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
Remarks - Shutdown	

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
Remarks - Shutdown	

M. Sachin Raju
M.SACHIN RAJU
T.M. - Chemical

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ENVIRONMENTAL LABORATORY

(UNIT OF MINERAL ENGINEERING SERVICES LLP)

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

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

TEST REPORT

Table No. 7

AMBIENT NOISE LEVEL DATA

Report No. ELMES0132501

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 LLP)

Date of sample collection : 11.01.2025

Date of sample receipt : 12.01.2025

Issue Date : 03.02.2025

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 (SMIOR Schools)	43.0	58.8	66.0	34.0	49.3	58.0
N2	Existing Water Reservoir (Near WTP Plant)	40.0	53.5	61.0	34.0	44.9	51.0
Buffer zone							
N3	Galemmanagudi	39.0	48.2	52.5	35.0	43.2	46.5
N4	Vysanakere Village	39.0	49.1	54.2	36.0	44.4	46.0
N5	Hanumanhalli	42.0	51.3	55.0	34.0	41.2	45.2

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

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 LLP)
Particulars of sample collected	: SW1 - Tungabhadra Dam water SW2 - Plant Reservoir
Date of sample collection	: 11.01.2025
Date of sample receipt	: 13.01.2025
Issue Date	: 23.01.2025
Ref:IS : 2296, Water Quality Standards	

Sl No.	Lab Code	N/25/01/03-0338	N/25/01/03-0339	Limits For Stream Water Standards	Method of Testing
	Samples Code	SW1	SW2		
	Parameters	Results			
1	Colour (Hazen Units), Max	5	5	300	IS:3025(Part-4)2021
2	pH	8.15	8.27	6.5 to 8.5	IS:3025(Part-11)2022
3	Dissolved Oxygen (as O ₂), mg/l, Max	5.6	5.5	Min 4	IS:3025(Part-38)1989RA 2019
4	Oil & Grease, mg/l	<0.1	<0.1	0.1	IS:3025(Part 39)2021
5	Total Dissolved Solids (mg/l), Max	162	160	1500	IS:3025(Part-16)2023
6	Nitrates (as NO ₃),mg/l, Max	8.20	10.50	50	IS:3025(Part-34)1988 RA 2019
7	Anionic detergents (as MBAS),mg/l, Max	<0.1	<0.1	1.0	IS:3025(Part-68)
8	Copper (as Cu),mg/l, Max	<0.005	<0.005	1.5	IS:3025(Part-2) 2019
9	Chloride (as Cl),mg/l, Max	32	28	600	IS:3025(Part-32) ;1988RA2019
10	Fluoride (as F),mg/l, Max	0.46	0.54	1.5	APHA 23rd Edition 4500F
11	Iron (as Fe),mg/l, Max	0.038	0.043	50	IS:3025(P-2) 2019
12	Phenolic compounds (as C ₆ H ₅ OH),mg/l, Max	<0.001	<0.001	0.005	IS:3025(P-43)Sec 1 2022
13	Selenium (as Se), mg/l, Max	<0.005	<0.005	0.05	IS:3025(P-2) 2019
14	Sulphates as SO ₄ (mg/l), Max	30	34	400	IS:3025(P-24)Sec 1 2022
15	Zinc (as Zn),mg/l, Max	<0.005	<0.005	15	IS:3025(P-2) 2019
16	Cadmium (as Cd), mg/l, Max	<0.001	<0.001	0.01	IS:3025(P-2) 2019
17	Cyanides (as CN), mg/l, Max	<0.01	<0.01	0.05	IS:3025(P-27) Sec 1 2021
18	Lead (as Pb) mg/l, Max	<0.005	<0.005	0.1	IS:3025(P-2) 2019
19	Total Arsenic as As (mg/l), Max	<0.002	<0.002	0.2	IS:3025(P-2) 2019
20	Hexavalent Chromium (as Cr ⁺⁶), mg/l, Max	<0.03	<0.03	0.05	IS:3025(P-52) 2014
21	Biochemical Oxygen Demand (as O ₂), mg/l	<3.0	<3.0	3	IS:3025(P-44) 2014
22	Total Coliform (mpn/100ml)	80	96	5000	IS:1622:1981

"END OF REPORT"

BINU MANI

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TEST REPORT

Report No : N0340250103

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	: 11.01.2025
Lab Code	: N/25/01/03-0340
Issue Date	: 23.01.2025
Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes	

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.80	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27°C	mg/l	8.1	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	36	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105°C	mg/l	17	<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	8.1	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	<1.8	<100	IS:15185 :2016 RA 2021

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