

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

'SANDUR HOUSE', No.9
Bellary Road, Sadashivanagar
Bengaluru - 560 080
Karnataka, India
Tel: +91 80 4152 0176 - 79 / 4547 3000
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Ref No: SMIORE/PLANT/ENV/MR/2025-26/03

08th April 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 **March-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 **March-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
ಶಿ.ರಾ.ಮಾ.ನಿ. ಮಂಡಳಿ
ಪ್ರಾದೇಶಿಕ ಕಛೇರಿ ವಿಜಯನಗರ ಮೊಸರವೆಂಕಟ
ಸಂಖ್ಯೆ/ದಿನಾಂಕ: 8/4/25 ಸಂಖ್ಯೆ 12

Encl: Environmental Monitoring Report **March-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, Vyasankere, Mariyammanahalli - 583 222, Hosapete Taluk, Vijayanagara District
Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

March, 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,

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ENVIRONMENTAL LABORATORY

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

TEST REPORT

AMBIENT AIR QUALITY

Table No. 1

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: 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	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 528 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 392 H 24
Calibration due date of instrument	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 01.04.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	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
07.03.2025	N016825033	11	18	57	33	<20	<1
08.03.2025	N023925033	12	15	54	29	<20	<1
10.03.2025	P002525033	9	13	48	25	<20	<1
11.03.2025	P010625033	10	16	45	27	<20	<1
21.03.2025	P005925034	12	18	50	32	<20	<1
22.03.2025	P009325034	9	11	53	27	<20	<1
24.03.2025	P002725035	11	15	55	30	<20	<1
25.03.2025	P012725035	10	13	47	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	Report No	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
07.03.2025	N016825033	0.16	<0.1	<0.5	<0.5	0.32	25
08.03.2025	N023925033	0.19	<0.1	<0.5	<0.5	0.18	24
10.03.2025	P002525033	0.25	<0.1	<0.5	<0.5	0.11	26
11.03.2025	P010625033	0.09	<0.1	<0.5	<0.5	0.17	27
21.03.2025	P005925034	0.14	<0.1	<0.5	<0.5	0.14	20
22.03.2025	P009325034	0.16	<0.1	<0.5	<0.5	0.21	25
24.03.2025	P002725035	0.19	<0.1	<0.5	<0.5	0.18	22
25.03.2025	P012725035	0.08	<0.1	<0.5	<0.5	0.22	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

Arshiya Kousar
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

AMBIENT AIR QUALITY

Table No. 2

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: 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	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 529 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 393 H 24
Calibration due date of instrument	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 01.04.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	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
07.03.2025	N016925033	11	15	44	26	<20	<1
08.03.2025	N024025033	12	18	40	24	<20	<1
10.03.2025	P002625033	10	13	48	27	<20	<1
11.03.2025	P010725033	9	12	53	28	<20	<1
21.03.2025	P006025034	11	13	51	28	<20	<1
22.03.2025	P009425034	9	12	40	22	<20	<1
24.03.2025	P002825035	11	17	45	24	<20	<1
25.03.2025	P012825035	9	13	57	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	Report No	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
07.03.2025	N016925033	0.23	<0.1	<0.5	<0.5	0.12	22
08.03.2025	N024025033	0.23	<0.1	<0.5	<0.5	0.15	28
10.03.2025	P002625033	0.09	<0.1	<0.5	<0.5	0.15	22
11.03.2025	P010725033	0.15	<0.1	<0.5	<0.5	0.11	20
21.03.2025	P006025034	0.35	<0.1	<0.5	<0.5	0.10	27
22.03.2025	P009425034	0.08	<0.1	<0.5	<0.5	0.10	20
24.03.2025	P002825035	0.28	<0.1	<0.5	<0.5	0.16	28
25.03.2025	P012825035	0.27	<0.1	<0.5	<0.5	0.16	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
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TEST REPORT

AMBIENT AIR QUALITY

Table No. 3

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: 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	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 527 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 331 J 24
Calibration due date of instrument	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 01.04.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	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
07.03.2025	N017025033	10	12	49	26	<20	<1
08.03.2025	N024125033	11	13	43	24	<20	<1
10.03.2025	P002725033	10	11	50	26	<20	<1
11.03.2025	P010825033	12	16	53	29	<20	<1
21.03.2025	P006125034	11	15	54	30	<20	<1
22.03.2025	P009525034	12	18	48	26	<20	<1
24.03.2025	P002925035	11	13	50	24	<20	<1
25.03.2025	P012925035	9	11	40	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	Report No	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
07.03.2025	N017025033	0.21	<0.1	<0.5	<0.5	0.15	24
08.03.2025	N024125033	0.25	<0.1	<0.5	<0.5	0.17	28
10.03.2025	P002725033	0.14	<0.1	<0.5	<0.5	0.24	20
11.03.2025	P010825033	0.05	<0.1	<0.5	<0.5	0.11	25
21.03.2025	P006125034	0.06	<0.1	<0.5	<0.5	0.16	21
22.03.2025	P009525034	0.08	<0.1	<0.5	<0.5	0.11	25
24.03.2025	P002925035	0.15	<0.1	<0.5	<0.5	0.12	20
25.03.2025	P012925035	0.10	<0.1	<0.5	<0.5	0.14	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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TEST REPORT

AMBIENT AIR QUALITY

Table No. 4

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: 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	: Respirable Dust Sampler - Envirotech APM 460BL Serial No. 533 B 25 Fine Particulate Sampler - Envirotech APM -550MINI, Serial No. 525 J 24
Calibration due date of instrument	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 01.04.2025
Reference	IS 5182 & Lab SOP

Date of Sampling	Report No	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
07.03.2025	N017125033	10	11	46	24	<20	<1
08.03.2025	N024225033	9	11	50	28	<20	<1
10.03.2025	P002825033	12	18	47	23	<20	<1
11.03.2025	P010925033	11	13	55	30	<20	<1
21.03.2025	P006225034	10	11	57	33	<20	<1
22.03.2025	P009625034	12	15	53	27	<20	<1
24.03.2025	P003025035	11	14	63	34	<20	<1
25.03.2025	P013025035	13	16	51	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	Report No	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
07.03.2025	N017125033	0.07	<0.1	<0.5	<0.5	0.10	26
08.03.2025	N024225033	0.26	<0.1	<0.5	<0.5	0.23	26
10.03.2025	P002825033	0.07	<0.1	<0.5	<0.5	0.16	26
11.03.2025	P010925033	0.08	<0.1	<0.5	<0.5	0.22	22
21.03.2025	P006225034	0.09	<0.1	<0.5	<0.5	0.16	22
22.03.2025	P009625034	0.15	<0.1	<0.5	<0.5	0.11	26
24.03.2025	P003025035	0.21	<0.1	<0.5	<0.5	0.42	28
25.03.2025	P013025035	0.25	<0.1	<0.5	<0.5	0.32	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

Arshiya Kousar
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Dy. T.M. - Chemical
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TEST REPORT

Table No. 5

Analysis Report of Fugitive Emission

Name of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Address : Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist.,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Station at & Code : Near Battery Area (Coke Oven)
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 530 B 25
Calibration due date of instrument : 26.02.2026
Duration : 08 Hrs
Issue date : 01.04.2025
Reference IS 5182 & Lab Sop

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM ₁₀ (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
08.03.2025	N024325033	12	18	356	0.25	0.45	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	120	3000	2.0	10	2
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr	8 Hrs

Note : * Parameters monitored for period of 1 hr

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

Table No. 6

Analysis Report of Fugitive Emission

Report No. N022824034

Name of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Address : Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist.,
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Station at & Code : Coal Storage area (Coke Oven)
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 523 B 25
Calibration due date of instrument : 26.02.2026
Duration : 08 Hrs
Issue date : 01.04.2025
Reference IS 5182 & Lab Sop

Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM _{2.5} , (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³	Benzo (a) Pyrene (BaP) µg/m ³
08.03.2025	N024425033	10	12	396	0.21	0.38	<0.0005
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	120	3000	2.0	10	2
Dated on 31.03.2012		8 Hrs	8 Hrs	8 Hrs	8 Hrs	1 Hr	8 Hrs

Note : * Parameters monitored for period of 1 hr

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

Table No. 7

Analysis Report of Fugitive Emission

Name of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),						
Address : Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : Finished goods yard in between F3 & F5 (M&FA)						
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 09 D 24						
Calibration due date of instrument : 19.04.2025						
Duration : 08 Hrs						
Issue date : 01.04.2025						
Reference IS 5182 & Lab Sop						
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
08.03.2025	N024525033	13	18	365	0.25	0.42
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	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						

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

Table No. 8

Analysis Report of Fugitive Emission

Name of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),						
Address : Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,						
Sample Collected by : Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Station at & Code : Raw martial storage area (M&FA)						
Instrument Used : Respirable Dust Sampler - Envirotech APM 460BL Serial No. 530 B 25						
Calibration due date of instrument : 26.02.2026						
Duration : 08 Hrs						
Issue date : 01.04.2025						
Reference IS 5182 & Lab Sop						
Date of Sampling	Report No	Sulphur Dioxide (SO ₂), µg/m ³	Nitrogen Dioxide (NO ₂), µg/m ³	PM (µg/m ³)	Lead (Pb), µg/m ³	Carbon Monoxide* (CO), mg/m ³
08.03.2025	N017225033	12	15	296	0.22	0.35
Permissible limits for Fugitive Emissions as per G.S.R.277E		150	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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TEST REPORT

Table No. 9

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: 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 LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 29.03.2025
Date of Sample Receipt	: 31.03.2025
Report No	: N000125041
Issue date	: 01.04.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	33
3	Stack Temperature ($^{\circ}\text{C}$)	136
4	Velocity (m/s)	7.41
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)	86582
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 due date	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	36.54	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2)	mg/Nm^3	16.12	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	22.31	--	IS: 11255(Part-7) 2017
4	CO	%	0.42	--	flue gas analyser
5	Oxygen (O_2)	%	16.88	--	flue gas analyser

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TEST REPORT

Table No. 10

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -01
Remarks - Shutdown	

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -02
Remarks - Shutdown	

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coal Crushing
Remarks - Shutdown	

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
Remarks - Shutdown	

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Screening & Store
Remarks - Shutdown	


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TEST REPORT

Table No. 11

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),			
Address	: Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,			
Stack ID	: DG Set 750 KVA (Coke Oven)			
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Instrument used for sampling	: Emissions collected through stack sampler			
Date of Collection	: 29.03.2025			
Date of Sample Receipt	: 31.03.2025			
Report No	: N000225041			
Issue date	: 01.04.2025			
STACK DETAILS				
1	Fuel Used	Diesel		
2	Ambient Temperature (°C)	33		
3	Stack Temperature (°C)	198		
4	Velocity (m/s)	8.97		
5	Stack Height (M)	15.0		
6	Stack diameter (M)	0.30		
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1987		
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 due date	15.07.2025		
12	Test Method	IS 11255 & flue gas analyser		
Pollutional Parameters (Result)				
Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.040	<0.2
2	CO	g/Kw-hr	0.153	<3.5
3	Nox +HC	g/Kw-hr	0.304	<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. 12

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Stack ID	: DG Set 250 KVA at VHT-2
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 29.03.2025
Date of Sample Receipt	: 31.03.2025
Report No	: N000325041
Issue date	: 01.04.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	35
3	Stack Temperature ($^{\circ}\text{C}$)	172
4	Velocity (m/s)	11.49
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	946
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 due date	15.07.2025
12	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.114	<0.2
2	CO	g/Kw-hr	0.239	<3.5
3	Nox +HC	g/Kw-hr	0.227	<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. 13

Stack Monitoring Report

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Stack ID	: DG Set 250 KVA at New baghouse
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 29.03.2025
Date of Sample Receipt	: 31.03.2025
Report No	: N000425041
Issue date	: 01.04.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature ($^{\circ}\text{C}$)	33
3	Stack Temperature ($^{\circ}\text{C}$)	230
4	Velocity (m/s)	15.30
5	Stack Height (M)	5.0
6	Stack diameter (M)	0.20
7	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	1153
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	86 DTF 12
11	Calibration due date	15.07.2025
12	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.148	<0.2
2	CO	g/Kw-hr	0.309	<3.5
3	Nox +HC	g/Kw-hr	0.272	<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. 14

Stack Monitoring Report

Report No. : N020824034

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Stack ID	: DG Set 625 KVA (Power Plant)
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 29.03.2025
Date of Sample Receipt	: 31.03.2025
Report No	: N000525041
Issue date	: 01.04.2025

STACK DETAILS

1	Fuel Used	Diesel
2	Ambient Temperature (°C)	36
3	Stack Temperature (°C)	444
4	Velocity (m/s)	20.08
5	Stack Height (M)	15.0
6	Stack diameter (M)	0.30
7	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	1997
8	Sample Condition When Received	Satisfactory
9	Model of the Equipment used for Monitoring	Vayubodhan Stack Sampler VSS1
10	Serial No. of the Equipment	86 DTF 12
11	Calibration due date	15.07.2025
12	Test Method	IS 11255 & flue gas analyser

Pollutional Parameters (Result)

Sl.No	Parameters	Unit	Results	Standard
1	Particulate Matter	g/Kw-hr	0.172	<0.2
2	CO	g/Kw-hr	0.271	<3.5
3	Nox +HC	g/Kw-hr	0.256	<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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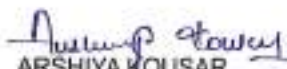
TEST REPORT

Table No. 15

AMBIENT NOISE LEVEL DATA

Report No. ELMES112503

Name of the Industry		: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),																	
Address		: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,																	
Instrument used for sampling		: 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		: 08.03.2025																	
Date of sample receipt		: 10.03.2025																	
Issue Date		: 01.04.2025																	
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 (SMIORE Schools)	40.0	53.0	60.0	34.0	44.7	51.2												
N2	Near Water Reservoir (WTP Plant)	39.2	51.7	58.4	34.8	46.5	54.2												
Buffer zone																			
N3	Near Galemmanagudi	37.0	48.8	54.1	35.0	43.1	46.1												
N4	Vysanakere Village	40.0	50.0	57.2	33.8	43.7	45.8												
N5	Hanumanahalli village	40.6	52.7	58.0	34.0	40.9	47.2												
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="1"> <thead> <tr> <th></th> <th>Day</th> <th>Night</th> </tr> </thead> <tbody> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> <tr> <td>Commercial area</td> <td>65</td> <td>55</td> </tr> <tr> <td>Residential area</td> <td>55</td> <td>45</td> </tr> </tbody> </table>									Day	Night	Industrial areas	75	70	Commercial area	65	55	Residential area	55	45
	Day	Night																	
Industrial areas	75	70																	
Commercial area	65	55																	
Residential area	55	45																	


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TEST REPORT

Table No. 16

FUGITIVE NOISE LEVEL DATA

Report No. ELMES132503

Name of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Instrument used for sampling	: 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	: 08.03.2025
Date of sample receipt	: 10.03.2025
Issue Date	: 01.04.2025

Code No.	Monitoring stations	Day			Remarks
		L _{min}	L _{eq}	L _{max}	
Corezone					
1	ARC Furnace -3 area	51.0	72.0	76.2	During operation
2	Raw martial storage area (M&FA)	48.3	68.2	74.2	During operation
3	Near Battery Area (Coke Oven)	40.2	65.3	70.5	During operation
4	Coal Storage area (Coke Oven)	45.2	72.2	75.2	During operation
5	Finished goods yard in between F3 & F5 (M&FA)	39.4	68.0	73.5	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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TEST REPORT

Table No. 17

FUGITIVE NOISE LEVEL DATA

Report No. ELMES122503

Name of the Industry		: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),	
Address		: Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Instrument used for sampling		: 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		: 29.03.2024	
Issue Date		: 01.04.2024	

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	73.2	75.0
N2	Stack Attached to 250 KVA at VHT-2		68.3	
N3	Stack Attached to 250 KVA at New Baghouse		66.2	
N4	Stack Attached to 625 KVA (Power Plant)		74.3	

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 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 "decibel" 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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TEST REPORT

Table No. 18

Name of the Client		: M/s. M/s. Sandur Manganese & Iron Ores Limited (Metal & Ferro Alloys Plant),			
Name of the Project		: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Particulars of sample collected		: DW1 - Plant Drinking water			
Date of sample collection		: 10.03.2025			
Date of sample receipt		: 11.03.2025			
Issue Date		: 17.03.2025			
Ref : IS-10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Report No	N029625033	Desirable Limits	Permissible Limits	Method of Testing
	Parameters	Results DW1			
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.03	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	24.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.05	0.2	IS:3025 (P-55)2005 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1986 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Annex 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	<2	75	200	IS:3025 (P-40)1981 RA 2019
13	Chloramines as Cl2	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	7.00	250	1000	IS:3025 (P-32)1986 RA 2019
15	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
16	Fluoride (as F),mg/l	<0.1	1	1.5	IS:3025 (P-60)2008 RA 2019
17	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
18	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
19	Magnesium (as Mg),mg/l	<2	30	100	IS:3025 (P-46)1994 RA 2019
20	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
21	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
22	Nitrates (as NO ₃),mg/l	<1	45	45	IS:3025 (P-34) 1986 RA 2019
23	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
24	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
25	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
26	Sulphate (as SO ₄),mg/l	<1	200	400	IS:3025 (P-24) Sec 1 2022
27	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
28	Total Alkalinity (as CaCO ₃) mg/l	12.0	200	600	IS:3025 (P-23) 1986 RA 2019
29	Total Hardness (as CaCO ₃),mg/l	4.0	200	600	IS:3025 (P-21) 2009 RA 2019
30	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
31	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
32	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
33	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
34	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
35	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
36	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
37	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
38	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
39	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
40	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021
41	Electrical Conductivity (µmhos/cm)	42.0	-	-	IS:3025 (P-14)

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 19

Name of the Client		M/s. M/s. Sandur Manganese & Iron Ores Limited (Metal & Ferro Alloys Plant),			
Name of the Project		Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,			
Sample Collected by		Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Particulars of sample collected		GW1 - Vysanakere Village Bore water			
Date of sample collection		08.03.2025			
Date of sample receipt		10.03.2025			
Issue Date		17.03.2025			
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Report No	Desirable Limits	Permissible Limits	Method of Testing
		N029725033 Results GW1			
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.36	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	380.0	500	2000	IS:3025 (P-18)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Ann 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	60.1	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl ₂	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	55.0	250	1000	IS:3025 (P-32)1986 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	1.18	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg),mg/l	43.7	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	15.7	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	34.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-20)1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	273.0	200	600	IS:3025 (P-23)1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	330.0	200	600	IS:3025 (P-21)2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
42	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021
43	Electrical Conductivity (µmhos/cm)	710.0	—	—	IS:3025 (P-14)

"END OF REPORT"

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TEST REPORT

Table No. 20

Name of the Client		: M/s. M/s. Sandur Manganese & Iron Ores Limited (Metal & Ferro Alloys Plant),			
Name of the Project		: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,			
Sample Collected by		: Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Particulars of sample collected		: GW2 - Galemmanagudi Bore water			
Date of sample collection		: 08.03.2025			
Date of sample receipt		: 10.03.2025			
Issue Date		: 17.03.2025			
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Parameters	Report No N029825033 Results GW2	Desirable Limits	Permissible Limits	Method of Testing
1	Colour (Hazen Units)	<1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.81	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU	<0.1	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	1534.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.05	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1986 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Ann 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	168.3	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl ₂	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	480.0	250	1000	IS:3025 (P-32)1986 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	1.35	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual, Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg),mg/l	102.0	30	100	IS:3025 (P-46)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	42.5	45	45	IS:3025 (P-34) 1986 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	140.00	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	520.0	200	600	IS:3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	440.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyanide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
42	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021
43	Electrical Conductivity (umhos/cm)	2600.0	--	--	IS:3025 (P-14)

"END OF REPORT"

BINU MANI

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TEST REPORT

Table No. 21

Name of the Client		M/s. M/s. Sandur Manganese & Iron Ores Limited (Metal & Ferro Alloys Plant),			
Name of the Project		Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist,			
Sample Collected by		Environmental Laboratory (Unit of Mineral Engineering Services LLP)			
Particulars of sample collected		GW3 - Hanumanahalli Bore water			
Date of sample collection		08.03.2025			
Date of sample receipt		10.03.2025			
Issue Date		17.03.2025			
Ref : IS:10500-2012 Norms Amendment - 4 (Drinking Water Standards)					
Sl. No.	Report No	N029925033	Desirable Limits	Permissible Limits	Method of Testing
	Parameters	Results GW3			
1	Colour (Hazen Units)	1	5	15	IS:3025 (P-4) 2021
2	Odour	Agreeable	Agreeable	Agreeable	IS:3025 (P-5) 2018
3	pH Value	7.70	6.5 to 8.5	6.5 - 8.5	IS:3025 (P-11)2022
4	Taste	Agreeable	Agreeable	Agreeable	IS:3025 (P- 8)1984 RA 2017
5	Turbidity,NTU	1.20	1	5	IS:3025 (P-10)1984 RA2017
6	Total Dissolved Solids,mg/l	1980.0	500	2000	IS:3025 (P-16)1984 RA2017
7	Aluminium (as Al)	<0.005	0.03	0.2	IS:3025 (P-55)2003 RA2019
8	Ammonia (as total Ammonia -N),mg/l	<0.1	0.5	0.5	IS:3025 (P-34)1988 RA2019
9	Anionic Detergents (as MBAS),mg/l	<0.1	0.2	1.0	Annex K of IS:13428 Ann 11 2022
10	Barium (as Ba), mg/l	<0.005	0.7	0.7	IS:3025(P-2)2019
11	Boron (as B), mg/l	<0.1	0.5	2.4	IS:3025 (Part-57)2021
12	Calcium (as Ca),mg/l	95.2	75	200	IS:3025 (P-40)1991 RA 2019
13	Chloramines as Cl2	<0.1	4	4	IS:3025(P-26)2021
14	Chloride as Cl (mg/l)	580.0	250	1000	IS:3025 (P-32)1988 RA 2019
16	Copper (as Cu),mg/l	<0.005	0.05	1.5	IS:3025 (P-2)2019
17	Fluoride (as F),mg/l	1.42	1	1.5	IS:3025 (P-60)2008 RA 2019
19	Residual Free Chlorine,mg/l	<0.1	0.2	1	IS:3025 (P-26)2021
20	Iron (as Fe),mg/l	<0.005	1.0	1.0	IS:3025 (Part-2)2019
21	Magnesium (as Mg),mg/l	92.3	30	100	IS:3025 (P-45)1994 RA 2019
22	Manganese (as Mn),mg/l	<0.001	0.1	0.3	IS:3025 (P-2)2019
23	Mineral Oil,mg/l	<0.5	1.0	1.0	Clause 6 of IS:3025 (P-39) 2021
24	Nitrates (as NO ₃),mg/l	44.5	45	45	IS:3025 (P-34) 1988 RA 2019
25	Phenolics (as C ₆ H ₅ OH),mg/l	<0.001	0.001	0.002	IS:3025 (P-43)Sec 1 2022
26	Selenium (as Se),mg/l	<0.005	0.01	0.01	IS:3025(P-2)2019
27	Silver (as Ag), mg/l	<0.005	0.1	0.1	IS:3025(P-2)2019
28	Sulphate (as SO ₄),mg/l	210.0	200	400	IS:3025 (P-24) Sec 1 2022
29	Sulphide (as H ₂ S) , mg/l	<0.01	0.05	0.05	IS:3025 (P-29) 1986 RA 2019
30	Total Alkalinity (as CaCO ₃) mg/l	700.0	200	600	IS:3025 (P-23) 1986 RA 2019
31	Total Hardness (as CaCO ₃),mg/l	320.0	200	600	IS:3025 (P-21) 2009 RA 2019
32	Zinc (as Zn),mg/l	<0.005	5	15	IS:3025 (P-2) 2019
33	Cadmium (as Cd),mg/l	<0.001	0.003	0.003	IS:3025 (P-2)2019
34	Cyznide (as CN),mg/l	<0.01	0.05	0.05	IS:3025 (P-27)Sec 1 2021
35	Lead (as Pb),mg/l	<0.005	0.01	0.01	IS:3025 (P-2)2019
36	Mercury (as Hg),mg/l	<0.0005	0.001	0.001	USPEA 200.7 Rev 4.4
37	Molybdenum (as Mo), mg/l	<0.001	0.07	0.07	IS:3025 (P-2)2019
38	Nickel (as Ni),mg/l	<0.001	0.02	0.02	IS:3025 (P-2) 2019
39	Arsenic (as As),mg/l	<0.002	0.01	0.01	IS:3025 (P-2)2019
40	Total Chromium (as Cr),mg/l	<0.001	0.05	0.05	IS:3025 (P-52)2014
41	Escherichia coli/100ml	Not Detected	Shall not be detectable in any 100ml Sample		IS:15185:2016 RA 2021
42	Total Coliform /100ml	Not Detected			IS:15185:2016 RA 2021
43	Electrical Conductivity (µmhos/cm)	3300.0	-	-	IS:3025 (P-14)

"END OF REPORT"

BINU MANI

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TEST REPORT

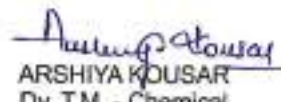
Name of the Client : M/s. Sandur Manganese & Iron Ores Limited
 Name of the Project : Iron & Steel Plant at Vysanakere village,
 Hosapete Taluk, Ballari District, Karnataka
 Sample Collected by : Environmental Laboratory
 (Unit of Mineral Engineering Services LLP)
 Particulars of sample collected : 50 KLD STP Water
 Date of sample collection : 10.03.2025
 Date of sample receipt : 12.03.2025
 Report No : N030025033
 Issue Date : 17.03.2025

Ref : Discharge Standards for Treated Sewage Utilized for Landscape/Irrigation/Secondary Purposes

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.60	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27°C	mg/l	7.9	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	42	<50	IS 3025 (P-58) 2008 RA 2017
4	Total Suspended Solids, at 105°C	mg/l	8	<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	8.2	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	<1.8	<100	APHA 24 th Edition


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