

The Sandur Manganese & Iron Ores Limited

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

de

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/2025-26/011

7th May 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, Vyasankere, Hosapete for the month of **April-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

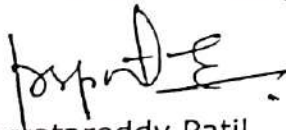
Dear Sir,

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



Handwritten notes and stamps in Kannada, including a date stamp '9-5-25' and a signature.

Encl: Environmental Monitoring Report April-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

Project	The Sandur Manganese & Iron Ores Ltd (Metal & Ferro Alloys Plant),
Location	Vyasanakere, Hanumanahalli Village, Hosapete
Client	M/s. The Sandur Manganese & Iron Ores Ltd
Office Address	Hosapete
Monitoring Month	April -2025

ENVIRONMENTAL LABORATORY

(Unit of Mineral Engineering Services LLP)

(Accredited by NABL & MOEF&CC Under E(P) Act 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	: Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Particulars of sample collected	: A1 - Near Existing AAQMS 01 (SMIORE School)						
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	: 26.02.2026						
Duration	: 24 Hrs						
Issue date	: 01.05.2025						
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
04.04.2025	N011025041	6	17	60	33	<20	<1
05.04.2025	N003425042	12	15	58	30	<20	<1
11.04.2025	N030525042	13	14	56	32	<20	<1
12.04.2025	N001425043	11	9	49	28	<20	<1
14.04.2025	N006225043	10	15	59	33	<20	<1
15.04.2025	N011525043	7	10	63	35	<20	<1
25.04.2025	N030525044	9	11	49	27	<20	<1
26.04.2025	N000525045	10	12	45	25	<20	<1
28.04.2025	N006425045	8	11	57	32	<20	<1
29.04.2025	N013225045	9	13	52	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
04.04.2025	N011025041	0.25	<0.1	<0.5	<0.5	0.41	23
05.04.2025	N003425042	0.28	<0.1	<0.5	<0.5	0.30	20
11.04.2025	N030525042	0.21	<0.1	<0.5	<0.5	0.29	25
12.04.2025	N001425043	0.26	<0.1	<0.5	<0.5	0.35	28
14.04.2025	N006225043	0.23	<0.1	<0.5	<0.5	0.41	26
15.04.2025	N011525043	0.29	<0.1	<0.5	<0.5	0.34	24
25.04.2025	N030525044	0.25	<0.1	<0.5	<0.5	0.29	27
26.04.2025	N000525045	0.21	<0.1	<0.5	<0.5	0.33	25
28.04.2025	N006425045	0.22	<0.1	<0.5	<0.5	0.26	29
29.04.2025	N013225045	0.28	<0.1	<0.5	<0.5	0.33	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

Arushi Kousar
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



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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)
Particulars of sample collected : 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 : 26.02.2026
Duration : 24 Hrs
Issue date : 01.05.2025
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
04.04.2025	N011125041	10	16	46	25	<20	<1
05.04.2025	N003525042	8	9	49	28	<20	<1
11.04.2025	N030625042	12	14	59	33	<20	<1
12.04.2025	N001525043	10	11	54	30	<20	<1
14.04.2025	N006325043	11	12	60	34	<20	<1
15.04.2025	N011625043	13	17	53	25	<20	<1
25.04.2025	N030625044	14	15	46	23	<20	<1
26.04.2025	N000625045	7	13	55	27	<20	<1
28.04.2025	N006525045	12	14	40	23	<20	<1
29.04.2025	N013325045	11	16	56	33	<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
04.04.2025	N011125041	0.26	<0.1	<0.5	<0.5	0.35	24
05.04.2025	N003525042	0.21	<0.1	<0.5	<0.5	0.48	22
11.04.2025	N030625042	0.22	<0.1	<0.5	<0.5	0.25	30
12.04.2025	N001525043	0.23	<0.1	<0.5	<0.5	0.42	28
11.04.2025	N030625042	0.22	<0.1	<0.5	<0.5	0.25	30
15.04.2025	N011625043	0.22	<0.1	<0.5	<0.5	0.35	25
25.04.2025	N030625044	0.24	<0.1	<0.5	<0.5	0.25	24
26.04.2025	N000625045	0.28	<0.1	<0.5	<0.5	0.38	30
28.04.2025	N006525045	0.25	<0.1	<0.5	<0.5	0.46	25
29.04.2025	N013325045	0.27	<0.1	<0.5	<0.5	0.41	28
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 of the Industry	: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),
Address	: Vyasnakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
Particulars of sample collected	: 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	: 26.02.2026
Duration	: 24 Hrs
Issue date	: 01.05.2025
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
04.04.2025	N011225041	10	18	54	29	<20	<1
05.04.2025	N003625042	12	14	48	27	<20	<1
11.04.2025	N030725042	12	18	51	30	<20	<1
12.04.2025	N001625043	10	12	45	25	<20	<1
14.04.2025	N006425043	8	10	38	16	<20	<1
15.04.2025	N011725043	11	14	47	29	<20	<1
25.04.2025	N030725044	8	11	54	30	<20	<1
26.04.2025	N000725045	14	18	58	33	<20	<1
28.04.2025	N006625045	12	16	45	26	<20	<1
29.04.2025	N013425045	10	14	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	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
04.04.2025	N011225041	0.23	<0.1	<0.5	<0.5	0.28	26
05.04.2025	N003625042	0.22	<0.1	<0.5	<0.5	0.35	21
11.04.2025	N030725042	0.29	<0.1	<0.5	<0.5	0.28	25
12.04.2025	N001625043	0.25	<0.1	<0.5	<0.5	0.36	22
14.04.2025	N006425043	0.21	<0.1	<0.5	<0.5	0.32	22
15.04.2025	N011725043	0.27	<0.1	<0.5	<0.5	0.36	28
25.04.2025	N030725044	0.22	<0.1	<0.5	<0.5	0.41	24
26.04.2025	N000725045	0.25	<0.1	<0.5	<0.5	0.34	25
28.04.2025	N006625045	0.29	<0.1	<0.5	<0.5	0.32	26
29.04.2025	N013425045	0.27	<0.1	<0.5	<0.5	0.29	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
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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	: Vyasankere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,						
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)						
Particulars of sample collected	: 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	: 26.02.2026						
Duration	: 24 Hrs						
Issue date	: 01.05.2025						
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
04.04.2025	N011325041	11	16	63	33	<20	<1
05.04.2025	N003725042	11	13	56	29	<20	<1
11.04.2025	N030825042	11	15	47	27	<20	<1
12.04.2025	N001725043	12	15	59	30	<20	<1
14.04.2025	N006525043	11	13	44	27	<20	<1
15.04.2025	N011825043	11	12	55	29	<20	<1
25.04.2025	N030825044	10	14	50	26	<20	<1
26.04.2025	N000825045	9	12	57	30	<20	<1
28.04.2025	N006725045	12	16	49	28	<20	<1
29.04.2025	N013525045	14	18	55	32	<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
04.04.2025	N011325041	0.21	<0.1	<0.5	<0.5	0.24	25
05.04.2025	N003725042	0.26	<0.1	<0.5	<0.5	0.35	22
11.04.2025	N030825042	0.28	<0.1	<0.5	<0.5	0.23	30
05.04.2025	N003725042	0.26	<0.1	<0.5	<0.5	0.35	22
14.04.2025	N006525043	0.28	<0.1	<0.5	<0.5	0.21	25
15.04.2025	N011825043	0.21	<0.1	<0.5	<0.5	0.31	21
25.04.2025	N030825044	0.22	<0.1	<0.5	<0.5	0.24	26
26.04.2025	N000825045	0.25	<0.1	<0.5	<0.5	0.25	30
28.04.2025	N006725045	0.26	<0.1	<0.5	<0.5	0.29	25
29.04.2025	N013525045	0.21	<0.1	<0.5	<0.5	0.33	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

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TEST REPORT

Table No. 5

AMBIENT NOISE LEVEL DATA

Report No. ELMES152504

Name of the Industry		: Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant),														
Address		: Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,														
Particulars of Sample		: Noise levels														
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		: 11.04.2025														
Issue Date		: 01.05.2025														
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)	42.0	56.6	63.2	34.0	46.4	53.2									
N2	Near Water Reservoir (WTP Plant)	39.2	54.7	60.1	34.8	50.3	58.0									
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="0"> <tr> <td></td> <td>Day</td> <td>Night</td> </tr> <tr> <td>Industrial areas</td> <td>75</td> <td>70</td> </tr> </table>									Day	Night	Industrial areas	75	70			
	Day	Night														
Industrial areas	75	70														
Code No.	Particulars of sample collected	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}									
Buffer zone																
N3	Near Galemmanagudi	36.5	49.3	54.8	34.8	43.5	47.2									
N4	Vysanakere Village	38.2	53.5	58.4	34.2	43.9	46.2									
N5	Hanumanahalli village	40.0	52.1	57.2	34.0	40.9	47.2									
Permissible Limits of Ambient Noise Levels as per CPCB Guidelines Leq. Limit dB(A) <table border="0"> <tr> <td></td> <td>Day</td> <td>Night</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> </table>									Day	Night	Commercial area	65	55	Residential area	55	45
	Day	Night														
Commercial area	65	55														
Residential area	55	45														

ARSHIYA KOUSAR
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Latitude: 15.194472
Longitude: 76.354827
Elevation: 496.32±17 m
Accuracy: 6.4 m
Time: 11-04-202511:00
Note: Vysanakere village.



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TEST REPORT

Table No. 6

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	: 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	: 14.04.2025
Date of Sample Receipt	: 15.04.2025
Report No	: M000125043
Issue date	: 01.05.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	37
3	Stack Temperature ($^{\circ}\text{C}$)	310
4	Velocity (m/s)	5.61
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)	79702
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	36.47	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/Nm^3	18.22	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	23.42	--	IS: 11255(Part-7) 2017
4	CO	%	0.45	--	flue gas analyser
5	Oxygen (O_2)	%	17.23	--	flue gas analyser

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TEST REPORT

Table No.7

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	: ARC Furnace area
Stack ID	: Stack Attached to Furnace -5
Sample Collected by	: Environmental Laboratory (Unit of Mineral Engineering Services LLP)
instrument used for sampling	: Emissions collected through stack sampler
Date of Collection	: 15.04.2025
Date of Sample Receipt	: 16.04.2025
Report No	: M000225043
Issue date	: 01.05.2025

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	38
3	Stack Temperature ($^{\circ}\text{C}$)	311
4	Velocity (m/s)	14.2
5	Stack Height (M)	35
6	Stack Diameter (M)	3.0
7	Cross Sectional Area in meter square (m^2)	95733
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	253186
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	51.76	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2).	mg/Nm^3	19.13	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/Nm^3	24.32	--	IS: 11255(Part-7) 2017
4	CO	%	0.48	--	flue gas analyser
5	Oxygen (O_2)	%	18.42	--	flue gas analyser

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TEST REPORT

Table No. 8

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. 9

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)			
Particulars of sample			: Soil Samples			
Particulars of sample collected			: S1- Near Main Gate North, S2 - Near Raw Material East S3 - Near Railway Siding South, S4 - Dispatch Gate West			
Sample Collected by			: Environmental Laboratory			
Date of sample collection			: 15.04.2025			
Date of sample receipt			: 16.04.2025			
Issue Date			: 01.05.2025			
Sampling & Test Method			: IS:9989 & Lab SOP			
Report No			M000325043	M000425043	M000525043	M000625043
Sample Code			S1	S2	S3	S4
SL.	PARAMETERS	Units	Results			
1	Colour	--	Red soil	Red soil	Red soil	Red soil
2	Textural class	--	LOAM	CLAY LOAM	CLAY LOAM	LOAM
3	Size Distribution					
	Sand	%	42.58	40.3	35.9	34.88
	Clay	%	35.11	28.22	35.38	38.96
	Silt	%	22.31	31.48	28.72	26.16
4	Moisture Content	%	9.52	8.62	9.38	11.20
5	Bulk Density	gm/cc	1.58	1.66	1.54	1.45
6	Water holding capacity	%	30.65	35.24	30.28	31.25
7	pH	--	6.83	7.15	6.89	7.13
8	EC	m.mohs/cm	0.230	0.370	0.276	0.255
Chemical Properties						
9	Organic Carbon	%	1.42	1.52	0.63	0.62
10	Nitrogen as N	Kg/Ha	190	210	242	179
11	Phosphorous as P	Kg/Ha	14.96	19.35	16.91	15.68
12	Potassium as K ₂ O	Kg/Ha	239.0	251.0	223.1	189.1
13	Sodium as Na	mg/Kg	127	158	82	109
14	Chloride as Cl	mg/Kg	255	282	246	220
15	Sulphate as SO ₄	mg/Kg	25	23	27	35

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TEST REPORT

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)
Particulars of sample collected	: 50 KLD STP Water
Date of sample collection	: 11.04.2025
Date of sample receipt	: 12.04.2025
Report No	: M009425042
Issue Date	: 21.04.2025

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

Sl. No.	Parameters	units	Results	Tolerance Limit	Method of Testing
1	pH	-	7.48	6.5 - 9.0	IS 3025 (P-11)2017
2	Biochemical Oxygen Demand BOD ₅ 27 ⁰ C	mg/l	6.7	<10	IS 3025 (P-44) 1993 RA 2019
3	Chemical Oxygen Demand (COD)	mg/l	40	<50	IS 3025 (P-58) 2006 RA 2017
4	Total Suspended Solids, at 105 ⁰ C	mg/l	10	<20	IS 3025 (P-16)1984 RA 2017
5	Ammonium (H4-N)	mg/l	0.1	<5	IS:3025 (P-34) 2023
6	Total Nitrogen (N-Total)	mg/l	7.3	<10	IS 3025 (Part-34)
7	Fecal coliform	MPN/100ml	6	<100	APHA 24 th Edition

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