

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/2023-24/111

06.11.2023

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-2023.

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,


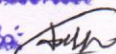
With reference to the subject cited above, please find here with Environmental Monitoring reports of M/s The Sandur Manganese & Iron Ores Limited, Vyasankere, Hanumanahalli Post, 583222, Hosapete Taluk, Vijayanagara District., for the Period October-2023 for your kind perusal.

Kindly acknowledge receipt of the same.

Thanking you,

The Sandur Manganese & Iron Ores Limited,


Authorized Signatory


ಶ್ರೀ ಮುನಿ.ವಂದಕೆ
ಪ್ರಾಥಮಿಕ ಕಛೇರಿ ವಿಜಯನಗರ, ಹೊಸಪೇಟೆ
ದಿನಾಂಕ: 8/11/23 ಸಹಿ: 

Encl: Environmental Monitoring Report October - 2023

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, Ballari District
Tel: +91 8394 244450 / 244335

ENVIRONMENTAL MONITORING REPORT

October, 2023

Project : The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant),
Vyasanakere, Hanumanahalli Village,
Hospet Taluk,

CONSULTANT

MINERAL ENGINEERING SERVICES
(Accredited by QCI-NABET ORG000756)
25/XXV, Club Road, BELLARY-583103,
Karnataka, Tel 08392-267421, Mob:
0919448367421,
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mesbly25@gmail.com

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,

LISsaT OF TABLES

SL. NO.	PARTICULARS	TABLE NO.
1	Test Report of Ambient Air Quality	1 to 4
2	Ambient Noise Level Data	5
3	Stack Monitoring Report	6 to 11



ENVIRONMENTAL LABORATORY



(UNIT OF MINERAL ENGINEERING SERVICES)

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. 1

AMBIENT AIR QUALITY

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory Representative							
Station at & Code : A1, Near Existing AAQMS 01 (SMIORE Schools)							
Duration : 24 Hrs							
Issue date : 03.11.2023							
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
06.10.2023	N/23/10/2-0109	9	11	54	27	<20	<1
07.10.2023	N/23/10/2-0166	12	14	57	30	<20	<1
09.10.2023	N/23/10/3-0022	10	11	46	25	<20	<1
10.10.2023	N/23/10/3-0072	9	11	50	26	<20	<1
20.10.2023	N/23/10/4-0129	11	14	55	28	<20	<1
21.10.2023	N/23/10/4-0168	10	11	40	24	<20	<1
27.10.2023	N/23/10/4-0315	11	13	48	23	<20	<1
28.10.2023	N/23/10/5-0011	11	14	39	20	<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
06.10.2023	N/23/10/2-0109	0.13	<0.1	<0.5	<0.5	0.30	25
07.10.2023	N/23/10/2-0166	0.17	<0.1	<0.5	<0.5	0.28	26
09.10.2023	N/23/10/3-0022	0.14	<0.1	<0.5	<0.5	0.24	28
10.10.2023	N/23/10/3-0072	0.13	<0.1	<0.5	<0.5	0.20	29
20.10.2023	N/23/10/4-0129	<0.1	<0.1	<0.5	<0.5	0.25	24
21.10.2023	N/23/10/4-0168	0.10	<0.1	<0.5	<0.5	0.28	25
27.10.2023	N/23/10/4-0315	0.12	<0.1	<0.5	<0.5	0.33	26
28.10.2023	N/23/10/5-0011	0.15	<0.1	<0.5	<0.5	<0.2	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

Arshiya Kousar

ARSHIYA KOUSAR
Dy. T.M. - Chemical

Govt. Analyst / Authorised Signatory

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TEST REPORT

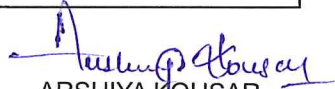
Table No. 2

AMBIENT AIR QUALITY

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory Representaive							
Station at & Code : A2, Existing Water Reservoir (Near WTP Plant)							
Duration : 24 Hrs							
Issue date : 03.11.2023							
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
06.10.2023	N/23/10/2-0110	8	11	52	28	<20	<1
07.10.2023	N/23/10/2-0167	11	12	45	24	<20	<1
09.10.2023	N/23/10/3-0023	9	10	39	19	<20	<1
10.10.2023	N/23/10/3-0073	11	15	48	26	<20	<1
20.10.2023	N/23/10/4-0130	12	13	56	25	<20	<1
21.10.2023	N/23/10/4-0169	11	13	43	22	<20	<1
27.10.2023	N/23/10/4-0316	10	10	40	21	<20	<1
28.10.2023	N/23/10/5-0012	11	12	38	20	<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
06.10.2023	N/23/10/2-0110	<0.1	<0.1	<0.5	<0.5	0.20	20
07.10.2023	N/23/10/2-0167	0.15	<0.1	<0.5	<0.5	0.25	21
09.10.2023	N/23/10/3-0023	0.12	<0.1	<0.5	<0.5	0.22	24
10.10.2023	N/23/10/3-0073	<0.1	<0.1	<0.5	<0.5	0.25	20
20.10.2023	N/23/10/4-0130	0.14	<0.1	<0.5	<0.5	0.21	26
21.10.2023	N/23/10/4-0169	0.11	<0.1	<0.5	<0.5	<0.2	23
27.10.2023	N/23/10/4-0316	<0.1	<0.1	<0.5	<0.5	0.21	21
28.10.2023	N/23/10/5-0012	0.10	<0.1	<0.5	<0.5	0.23	20
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

Table No. 3

AMBIENT AIR QUALITY

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory Representaive							
Station at & Code : A3, Galemmanagudi							
Duration : 24 Hrs							
Issue date : 03.11.2023							
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
06.10.2023	N/23/10/2-0111	9	10	50	28	<20	<1
07.10.2023	N/23/10/2-0168	10	11	47	24	<20	<1
09.10.2023	N/23/10/3-0024	8	10	56	32	<20	<1
10.10.2023	N/23/10/3-0074	11	14	48	25	<20	<1
20.10.2023	N/23/10/4-0131	10	13	51	27	<20	<1
21.10.2023	N/23/10/4-0170	9	12	40	22	<20	<1
27.10.2023	N/23/10/4-0317	10	11	44	24	<20	<1
28.10.2023	N/23/10/5-0013	8	9	50	25	<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
06.10.2023	N/23/10/2-0111	0.14	<0.1	<0.5	<0.5	<0.2	24
07.10.2023	N/23/10/2-0168	0.12	<0.1	<0.5	<0.5	0.28	25
09.10.2023	N/23/10/3-0024	0.15	<0.1	<0.5	<0.5	0.17	23
10.10.2023	N/23/10/3-0074	0.15	<0.1	<0.5	<0.5	0.23	21
20.10.2023	N/23/10/4-0131	0.11	<0.1	<0.5	<0.5	0.20	26
21.10.2023	N/23/10/4-0170	0.13	<0.1	<0.5	<0.5	0.25	27
27.10.2023	N/23/10/4-0317	0.10	<0.1	<0.5	<0.5	0.24	28
28.10.2023	N/23/10/5-0013	0.12	<0.1	<0.5	<0.5	0.22	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

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TEST REPORT

Table No. 4

AMBIENT AIR QUALITY

Name and Address of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,							
Sample Collected by : Environmental Laboratory Representative							
Station at & Code : A4, Near Plant Railway Siding							
Duration : 24 Hrs							
Issue date : 03.11.2023							
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
06.10.2023	N/23/10/2-0112	11	16	60	28	<20	<1
07.10.2023	N/23/10/2-0169	12	14	55	27	<20	<1
09.10.2023	N/23/10/3-0025	11	12	46	26	<20	<1
10.10.2023	N/23/10/3-0075	9	10	38	19	<20	<1
20.10.2023	N/23/10/4-0132	12	14	50	25	<20	<1
21.10.2023	N/23/10/4-0171	10	12	47	24	<20	<1
27.10.2023	N/23/10/4-0318	11	14	49	26	<20	<1
28.10.2023	N/23/10/5-0014	10	16	42	25	<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
06.10.2023	N/23/10/2-0112	0.14	<0.1	<0.5	<0.5	0.32	22
07.10.2023	N/23/10/2-0169	0.11	<0.1	<0.5	<0.5	0.26	21
09.10.2023	N/23/10/3-0025	0.19	<0.1	<0.5	<0.5	0.31	20
10.10.2023	N/23/10/3-0075	0.15	<0.1	<0.5	<0.5	0.21	22
20.10.2023	N/23/10/4-0132	0.13	<0.1	<0.5	<0.5	0.20	24
21.10.2023	N/23/10/4-0171	0.19	<0.1	<0.5	<0.5	0.23	23
27.10.2023	N/23/10/4-0318	0.12	<0.1	<0.5	<0.5	0.29	22
28.10.2023	N/23/10/5-0014	0.15	<0.1	<0.5	<0.5	0.33	20
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

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 : Mineral Engineering Services							
Date of sample collection : 09.10.2023							
Date of sample receipt : 11.10.2023							
Issue Date : 03.11.2023							
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	54.2	63.2	34.0	41.6	46.0
N2	Existing Water Reservoir (Near WTP Plant)	38.0	48.4	55.7	35.3	43.6	47.3
Buffer zone							
N3	Galemmanagudi	39.0	51.4	58.0	34.6	42.2	46.5
N4	Vysanakere Village	38.0	49.5	56.4	34.0	43.8	47.0
N5	Hanumanhalli	38.6	51.4	56.8	35.3	42.7	48.2
<u>Permissible Limits of Ambient Noise Levels as per CPCB Guidelines</u>							
Leq. Limit dB(A)							
		Day		Night			
Industrial areas		75		70			
Commercial area		65		55			
Residential area		55		45			


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Table No. 6

TEST REPORT

Stack Monitoring Report

Report No. : N017023102

Name and Address of the Industry : Ms. The Sandur Manganese & Iron Ores Ltd.	
Name	(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 Representative
Date of Collection	: 07.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.10.2023
Lab Code	: N/23/10/2-0170
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature (°C)	29
3	Stack Temperature (°C)	110
4	Velocity (m/s)	8.36
5	Stack Height (M)	35
6	Stack Diameter (M)	2.5
7	Cross Sectional Area in meter square (m ²)	4.9109
8	Quantity of flue Gas Discharged into atmosphere (Nm ³ /hr)	104422
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	34.80	150	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO ₂),	mg/Nm ³	22.40	--	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO ₂)	mg/Nm ³	38.12	--	IS: 11255(Part-7) 2017
4	CO	%	0.21	--	flue gas analyser
4	Oxygen (O ₂)	%	15.43	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No.7

Report No. : N017123102

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 ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -01
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 07.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 09.10.2023
Lab Code	: N/23/10/2-0171
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	30
3	Stack Temperature ($^{\circ}$ C)	126
4	Velocity (m/s)	9.90
5	Stack Height (M)	60
6	Stack Diameter (M)	4.6
7	Cross Sectional Area in meter square (m^2)	16.62647
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	289836
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	38.22	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	48.56	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	66.85	500	IS: 11255(Part-7) 2017
4	CO	%	0.63	Max1%	flue gas analyser
5	Oxygen (O_2)	%	18.25	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No. 8

Report No. : N002623103

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	: Coke Oven Plant
Stack ID	: Stack Attached to WHRB -02
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 09.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 14.10.2023
Lab Code	: N/23/10/3-0026
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	30
3	Stack Temperature ($^{\circ}$ C)	130
4	Velocity (m/s)	8.84
5	Stack Height (M)	60
6	Stack Diameter (M)	4.6
7	Cross Sectional Area in meter square (m^2)	16.62647
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	289218.0
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	35.85	50	IS: 11255(Part-1) 2014
2	Sulphur Dioxide (SO_2),	mg/ Nm^3	42.60	800	IS: 11255(Part-2) 2014
3	Nitrogen Dioxide (NO_2)	mg/ Nm^3	62.56	500	IS: 11255(Part-7) 2017
4	CO	%	0.42	Max1%	flue gas analyser
5	Oxygen (O_2)	%	6.10	--	flue gas analyser

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TEST REPORT Stack Monitoring Report

Table No. 9

Report No. : N007623103

Name and Address of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vysanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coal Crushing
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 10.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 14.10.2023
Lab Code	: N/23/10/3-0076
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	29
3	Stack Temperature ($^{\circ}$ C)	64
4	Velocity (m/s)	7.13
5	Stack Height (M)	15
6	Stack Diameter (M)	0.8
7	Cross Sectional Area in meter square (m^2)	0.4419
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	10366
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	30.21	50	IS: 11255(Part-1) 2014

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TEST REPORT Stack Monitoring Report

Table No. 10

Report No. : N007723103

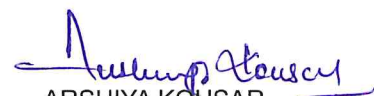
Name and Address of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant), Vyasanakere, Hanumanahalli Village, Hospet Taluk, Ballari Dist ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Cutter
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 10.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 14.10.2023
Lab Code	: N/23/10/3-0077
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}$ C)	29
3	Stack Temperature ($^{\circ}$ C)	28
4	Velocity (m/s)	6.86
5	Stack Height (M)	15
6	Stack Diameter (M)	0.7
7	Cross Sectional Area in meter square (m^2)	0.3850
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	7780
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	36.21	50	IS: 11255(Part-1) 2014


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TEST REPORT Stack Monitoring Report

Table No. 11

Report No. : N007823103

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 ,	
Location	: Coke Oven Plant
Stack ID	: Stack Attached to Coke Screening & Store
Sample Collected by	: Environmental Laboratory Representative
Date of Collection	: 10.10.2023
Particulars of Sample Collected	: Emissions from stack collected through stack sample VSS1
Date of Sample Receipt	: 14.10.2023
Lab Code	: N/23/10/3-0078
Issue date	: 03.11.2023

STACK DETAILS

1	Fuel Used	-
2	Ambient Temperature ($^{\circ}\text{C}$)	28
3	Stack Temperature ($^{\circ}\text{C}$)	54
4	Velocity (m/s)	6.39
5	Stack Height (M)	15
6	Stack Diameter (M)	0.7
7	Cross Sectional Area in meter square (m^2)	0.3850
8	Quantity of flue Gas Discharged into atmosphere (Nm^3/hr)	7325
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	28.20	50	IS: 11255(Part-1) 2014

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