ENVIRONMENTAL MONITORING REPORT

(January - 2023)

Iron & Steel plant

at

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka

M/s. The Sandur Manganese & Iron Ores Ltd.

Sandur, Ballari District, Karnataka.

Monitoring Agency

Prepared By
M S V Analytical Laboratories

C.M.C Ward No 18 & C.T.C W.No.16 T.S No 695 / A / 32 / B1, Block No 19 (1st & 2nd Floor) Sanganakallu Road, KEB Circle, Bellari - 583103.

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&

Accredited By NABL ISO/ IEC 17025:2005 Certificate No- TC 7207

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r. No.	Description	PAGE NO.
1.0	Ambient Air Quality Monitoring Reports For the Month of January 2023	
1.1	Ambient Air Quality Monitoring 1st Week 1 St Round at Smiore Colony	1- 9
	Ambient Air Quality Monitoring 1st Week 1 St Round at Kallahalli Village	3-4
	Ambient Air Quality Monitoring 1st Week 1 st Round at Vysanakere Village	5-6
	Ambient Air Quality Monitoring 1st Week 1 st Round at Gunda Village	7-3
1.2	Ambient Air Quality Monitoring 1st Week 2 nd Round at Smiore Colony	9-10
1.2	Ambient Air Quality Monitoring 1st Week 2 nd Round at Kallahalli Village	11-12
	Ambient Air Quality Monitoring 1st Week 2 nd Round at Vysanakere Village	13-14
	Ambient Air Quality Monitoring 1st Week 2 nd Round at Gunda Village	15-16
1.3	Ambient Air Quality Monitoring 2nd Week 1 St Round at Smiore Colony	12-18
1.5	Ambient Air Quality Monitoring 2nd Week 1 St Round at Kallahalli Village	19-20
	Ambient Air Quality Monitoring 2nd Week 1 st Round at Vysanakere Village	21-24
	Ambient Air Quality Monitoring 2nd Week 1 St Round at Gunda Village	23-24
1.4	Ambient Air Quality Monitoring 2nd Week 2nd Round at Smiore Colony	25-26
1.4	Ambient Air Quality Monitoring 2nd Week 2 nd Round at Kallahalli Village	27-28
	Ambient Air Quality Monitoring 2nd Week 2nd Round at Vysanakere Village	29-30
	Ambient Air Quality Monitoring 2nd Week 2nd Round at Gunda Village	31-32
1.5	Ambient Air Quality Monitoring 3 rd Week 1 St Round at Smiore Colony	33-34
	Ambient Air Quality Monitoring 3 rd Week 1 St Round at Kallahalli Village	35-34
	Ambient Air Quality Monitoring 3 rd Week 1 St Round at Vysanakere Village	37-38
	Ambient Air Quality Monitoring 3 rd Week 1 St Round at Gunda Village	39-40
1.6	Ambient Air Quality Monitoring 3 rd Week 2 nd Round at Smiore Colony	41-4
	Ambient Air Quality Monitoring 3 rd Week 2 nd Round at Kallahalli Village	43-4
	Ambient Air Quality Monitoring 3 rd Week 2 nd Round at Vysanakere Village	45-4
	Ambient Air Quality Monitoring 3 rd Week 2 nd Round at Gunda Village	47-4
1.7	Ambient Air Quality Monitoring 4th Week 1st Round at Smiore Colony	49-5
1./	Ambient Air Quality Monitoring 4th Week 1 St Round at Kallahalli Village	51-5
	Ambient Air Quality Monitoring 4th Week 1st Round at Vysanakere Village	53-5
	Ambient Air Quality Monitoring 4th Week 1st Round at Gunda Village	55-0
1.8	Ambient Air Quality Monitoring 4th Week 2nd Round at Smiore Colony	57-5
1.0	Ambient Air Quality Monitoring 4th Week 2nd Round at Kallahalli Village	59,-1
	Ambient Air Quality Monitoring 4th Week 2nd Round at Vysanakere Village	
-	Ambient Air Quality Monitoring 4th Week 2nd Round at Gunda Village	61-6

2.0	Stack Monitoring Reports For the Month of January 2023	
2.1	Stack Monitoring Report of Coke Screening & Store	
2.2	Stack Monitoring Report of Coke Cutter	66
2.3	Stack Monitoring Report of Coal Crushing Area	
2.4	Stack Monitoring Report of Ferro Alloy ARC Furnace-5	67
2.5	Stack Monitoring Report of Ferro Alloy ARC Furnace-3	6.8
2.6	Stack Monitoring Report of Coke Oven Battery-Pasess Through WHRB-1	69
2.7	Stack Monitoring Report of Coke Oven Battery-Pasess Through WHRB-2	10
3.0	Fugitive Emission Monitoring Reports For the Month of January 2023	71
	•	
3.1	Fugitive Emission Analysis report at Near ARC Furnace	72
3.2	Fugitive Emission Analysis report at Near Power Plant	73
3.3	Fugitive Emission Analysis report at Near Coal Shed Area	.+4
3.4	Fugitive Emission Analysis report at Near Coke Oven Plant	
3.5	Fugitive Emission Analysis report at Near Main Gate	7-5
3.6	Fugitive Emission Analysis report at Near iron Ore Beneficiation Plant	77
	Ambient Noise Level Monitoring Reports For the Month of	.79
4.0	January 2023	
4.1	1.Vyasanakere Village 2.Kallahalli Village 3.Gunda Village 4.Hanumanhalli Village 5.Rajapura Village 6.Venkatagiri Village 7.Ramgad Village	78-79
5.0	Work zone Noise Monitoring Reports For the Month of January 2023	
5.1	1.Coal Crusher Area 2.Coke Cutting Area 3.Coke Screening Area 4.WHRB-1 Plant 5.Arc Furnace 6.Power Plant 7.Coal Shed Area 8.Coke oven Plant 9.DG Area	80



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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)

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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

Issue Date: 06.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000185F

Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3.

Sample Collected By

: Smiore Colony

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

03.01.2023

6. Date of Sample Receipt

04.01.2023

Sample Code
 Analysis Starting Date

: 04.01.2023

9. Analysis Completion Date

06.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shi	ft wise resi	ults	Units	Result	
			1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	57.7	56.1	54.2	μg / m³	56.00	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	28.4	26.2	24.3	μg / m³	26.30	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	11.03	9.93	9.09	μg / m³	10.02	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	17.47	16.86	14.96	μg / m³	16.43	80
5	Ozone as O ₃	IS 5182(part-9)	12.4	13.8	10.4	μg / m³	12.20	100
6	Lead	IS-5182(Part22)	0.034	0.030	0.026	μg / m³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.42	0.38	0.30	mg/m³	0.37	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.34	1.20	ng / m³	1.27	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

-: END OF REPORT:

Authorized Signatory

B.Chinna Lingana Gouda

Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor) Sanganakallu Road, KEB Circle, Bellary-583103. Contact No: Mob: 94498 03895, (0): 08392-255169, E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/44

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village. Hospet Taluk, Bellary District, Karnataka.

Name of the location

Sample Collected By 3.

Particulars of the sample 4.

MSV Analytical Laboratories, Bellary.

Date of Sampling

Sample collected with RDS APM460 and FDS GTI-131

5.

03.01.2023 04.01.2023

Smiore Colony

Date of Sample Receipt 6.

44

Sample Code

04.01.2023

Analysis Starting Date 8. **Analysis Completion Date**

06.01.2023

Sample Tested as Received

				All Maryall				
S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
	1		1	2	3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000186F

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location

Kallahalli Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

4. Particulars of the sample Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling 5.

03.01.2023

6. **Date of Sample Receipt** 04.01.2023 224

7. Sample Code

8. **Analysis Starting Date** 04.01.2023

9. **Analysis Completion Date** 10. Sample Tested as Received 06.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	Tolerance limits
			1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	55.2	54.1	52.6	μg / m³	53.97	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.4	17.6	16.8	μg / m³	17.60	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.4	7.58	6.78	μg / m³	7.59	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	14.38	13.05	11.94	μg / m³	13.12	80
5	Ozone as O ₃	IS 5182(part-9)	7.8	6.8	5.4	μg / m³	6.67	100
6	Lead	IS-5182(Part22)	0.028	0.026	0.020	μg / m³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.32	0.26	mg/m³	0.29	2
8	Ammonia as NH₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.38	1.36	1.30	ng / m³	1.35	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

B. Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/45

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village. Hospet Taluk, Bellary District, Karnataka.

Name of the location

Sample Collected By 3.

Particulars of the sample 4.

5. **Date of Sampling**

Date of Sample Receipt 6.

7. **Analysis Starting Date** 8.

Analysis Completion Date

Sample Code

Sample Tested as Received

Kallahalli Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

03.01.2023

04.01.2023

45

04.01.2023

06.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
			1	2	3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{1.} The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000187F

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location Vysanakere Village

3. Sample Collected By MSV Analytical Laboratories, Bellary.

4. Particulars of the sample Sample collected with RDS APM460 and FDS GTI-131

5. **Date of Sampling** Date of Sample Receipt

03.01.2023 04.01.2023

6. Sample Code

223

R

04.01.2023

Analysis Starting Date Analysis Completion Date 9.

06.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shir	ft wise res	ults	Units	Result	
	200		1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.8	51.6	50.4	μg / m³	51.60	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.4	17.0	16.2	μg / m³	17.20	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	11.9	10.93	9.24	μg / m³	10.69	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	16.01	14.81	13.75	μg / m³	14.86	80
5	Ozone as O ₃	IS 5182(part-9)	9.8	8.4	7.8	μg / m³	8.67	100
6	Lead	IS-5182(Part22)	0.021	0.018	0.016	μg / m³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.22	0.18	mg/m³	0.23	2
8	Ammonia as NH₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.38	1.26	1.22	ng/m³	1.29	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by



Authorized Signatory - UP. B. Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/46

Issue Date: 06.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

4. Particulars of the sample

5. Date of Sampling

6. Date of Sample Receipt

7. Sample Code 8. Analysis Starting Date

9. Analysis Completion Date
10. Sample Tested as Received

Vysanakere Village MSV Analytical Laboratories, Bellary.

: Sample collected with RDS APM460 and FDS GTI-131

03.01.2023 04.01.2023

: 46

: 04.01.2023

: 06.01.2023

			0.0	Land Committee	-				
S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits	
			1	2	3		Avg.	mmes	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5	
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1	
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6	

I Y I L J Y

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

RALLARI OR TORN

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoic amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000188F

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

Gunda Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample 4.

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

03.01.2023

Date of Sample Receipt 6. 7.

10.

04.01.2023 222

Sample Code **Analysis Starting Date** 8.

04.01.2023

Analysis Completion Date 9

Sample Tested as Received

06.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	
			1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	15.1	55.4	53.2	μg / m³	41.23	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	15.3	14.4	14.0	μg / m³	14.57	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.07	8.1	6.71	μg / m³	7.96	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	11.89	11.28	9.94	μg / m³	11.04	80
5	Ozone as O ₃	IS 5182(part-9)	8.8	9.2	7.2	μg / m³	8.40	100
6	Lead	IS-5182(Part22)	<0.01	<0.01	<0.01	μg / m³	<0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.32	0.26	mg/m³	0.29	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	<0.01	<0.01	<0.01	ng/m³	<0.01	20

As per NAAQS Standards INFERENCE

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B. Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified, 6. The tests and/or calibrations marked with an are not accredited by NABL,



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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 06.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/47

Name of the Project

Name of the location Sample Collected By 3. Particulars of the sample

5. **Date of Sampling**

Date of Sample Receipt Sample Code 7.

Analysis Starting Date 8. **Analysis Completion Date**

Sample Tested as Received

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Gunda Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

03.01.2023

04.01.2023

47

04.01.2023 06.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in	Tolerance limits
			1	2	3	L	Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status: The analyzed values for above measured parameter are within the limits
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Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{1.} The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoic amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Email: labmsy@gmail.com, msyalbellary2018@gmail.com, msy.lab01@gmail.com Web ID: www.msyalbellary.com



MSVAL/A/F/16/03

Issue Date: 06.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000380F

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location

Smiore Colony

Sample Collected By

MSV Analytical Laboratories, Bellary. Sample collected with RDS APM460 and FDS GTI-131

Particulars of the sample 4. 5. **Date of Sampling**

06.01.2023

Date of Sample Receipt 6.

06.01.2023

Sample Code 7.

2.

480 07.01.2023

8. **Analysis Starting Date Analysis Completion Date** 9.

10.01.2023

10.

Sample Tested as Received

S.No	Parameter	Protocols	Shii	t wise res	ults	Units	Result in Avg.	Tolerance limits
			1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	58.4	57.4	56.7	μg / m³	57.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.6	17.7	16.3	μg / m³	17.53	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.8	7.7	8.5	μg / m³	8.67	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	15.6	14.8	13.8	μg / m³	14.73	80
5	Ozone as O ₃	IS 5182(part-9)	9.4	8.2	7.4	μg / m³	8.33	100
6	Lead	IS-5182(Part22)	0.024	0.023	0.022	μg / m³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.35	0.34	mg/m³	0.35	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.18	1.17	1.16	ng / m³	1.17	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

Authorized Signatory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/215

Issue Date: 06.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Smiore Colony

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131 06.01.2023

5. Date of Sampling

: 07.01.2023

6. Date of Sample Receipt7. Sample Code

: 215

8. Analysis Starting Date

: 07.01.2023

9. Analysis Completion Date

: 06.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4.Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us upless otherwise specified. 6. The tests and/or calibrations marked with an * are not accredited by NABL.

10



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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000381F

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

Sample Collected By

Kallahalli Village

Particulars of the sample 4.

MSV Analytical Laboratories, Bellary. Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

06.01.2023

Date of Sample Receipt 6.

07.01.2023

7. Sample Code 483

R. **Analysis Starting Date** 9. **Analysis Completion Date** 07.01.2023 06.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shii	ft wise res	ults	Units	Result	Tolerance limits
5.110	- urumete.		1	2	3	06	in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	57.4	56.2	55.8	μg / m³	56.47	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.2	17.4	16.2	μg / m³	17.27	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.8	8.7	16.2	μg / m³	11.57	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	15.6	15.0	14.2	μg / m³	14.93	80
5	Ozone as O ₃	IS 5182(part-9)	10.2	9.4	9.2	μg / m³	9.60	100
6	Lead	IS-5182(Part22)	0.020	0.019	0.018	μg / m³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.31	0.30	mg/m³	0.31	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.20	1.20	1.20	ng / m³	1.20	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

B. Chinna Lingana Gouda Chief executive of the laboratory

Authorized Signator

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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MSVAL/A/F/16/03

Issue Date: 06.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/216

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

Name of the location 2.

Sample Collected By 3.

Particulars of the sample 4.

5. **Date of Sampling**

6. **Date of Sample Receipt**

Sample Code 7.

Analysis Starting Date Analysis Completion Date 9.

Sample Tested as Received

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Kallahalli Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

06.01.2023

07.01.2023

216

07.01.2023

06.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in Avg.	Tolerance limits
5.110			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

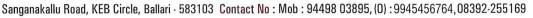
B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000382F

Issue Date: 06.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location

Vysanakere Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Shift wice recults

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling 5.

06.01.2023

Date of Sample Receipt

07.01.2023

Sample Code 7

10.

482

Analysis Starting Date 8.

07.01.2023

Analysis Completion Date 9.

Sample Tested as Received

06.01.2023

S.No	Parameter	Protocols	Silli	it wise i es	uits	Units	Result	Tolerance
o	6/2	10 m	1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.1	51.4	50.6	μg / m³	51.37	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	14.2	13.6	12.2	μg / m³	13.33	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.0	6.1	5.3	μg / m³	6.13	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	13.0	12.4	11.3	μg / m³	12.23	80
5	Ozone as O ₃	IS 5182(part-9)	0.25	0.24	0.23	μg / m³	0.24	100
6	Lead	IS-5182(Part22)	0.026	0.026	0.026	μg / m³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.18	0.17	0.16	mg/m³	0.17	2

< 0.01

1.22

As per NAAQS Standards INFERENCE

LAB SOP

MSVAL/SOP/A/006 LAB SOP

MSVAL/SOP/A/008

Report Status: The analyzed values for above measured parameter are within the limits

< 0.01

1.22

Analysed by

Ammonia as NH₃

Nickel as Ni

8

9

Authorized Signatory

B. Clinna Lingana Gouda

< 0.01

1.22

Chief executive of the laboratory

 $\mu g / m^3$

ng/m³

< 0.01

1.22

400

20

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/217

Issue Date: 06.01.2023

Name of the Project

(Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

2. Name of the location

3. Sample Collected By

Particulars of the sample 4.

Date of Sampling 5.

Date of Sample Receipt 6.

Sample Code 7.

8. **Analysis Starting Date**

Analysis Completion Date Sample Tested as Received M/s. The Sandur Manganese & Iron Ores Ltd.

Hospet Taluk, Bellary District, Karnataka.

Vysanakere Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

06.01.2023

07.01.2023

217

07.01.2023

06.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

IVILIY

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000383F

Issue Date: 06.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

06.01.2023 07.01.2023

6. Date of Sample Receipt7. Sample Code

: 481

8. Analysis Starting Date

: 07.01.2023

9. Analysis Completion Date

: 06.01.2023

10.	Sample	Tested	as	Received	

S.No	Parameter	Protocols	Shif	ft wise res	ults	Units	Result in Avg.	Tolerance
	7/4	Salar Control of Control	1	2	3		ın Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	53.4	52.6	51.4	μg / m³	52.47	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	14.6	13.4	12.6	μg / m³	13.53	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.3	6.2	5.1	μg / m³	6.20	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	13.8	13.1	11.6	μg / m³	12.83	80
5	Ozone as O ₃	IS 5182(part-9)	6.4	5.4	4.2	μg / m³	5.33	100
6	Lead	IS-5182(Part22)	<0.01	<0.01	<0.01	μg / m³	<0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.23	0.21	mg/m³	0.23	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	<0.01	<0.01	<0.01	ng/m³	<0.01	20

INFERENCE

As per NAAQS Standards

Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

BALLORI DE STATE

B. Chinna Lingana Gouda
Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/218

Issue Date: 06.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

4. Particulars of the sample

5. Date of Sampling

6. Date of Sample Receipt

7. Sample Code

8. Analysis Starting Date

9. Analysis Completion Date

: Gunda Village

: MSV Analytical Laboratories, Bellary.

: Sample collected with RDS APM460 and FDS GTI-131

06.01.2023

07.01.2023

: 218

: 07.01.2023

10. Sample Tested as Received

: 06.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE AS	s per NAAQS Standards eport Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chirna Lingana Gouda
Chief executive of the laboratory

ST ENROPATED

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoi amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with ar are not accredited by NABL.



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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000471F

Issue Date: 12.01.2023

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Smiore Colony

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: MSV Analytical Laboratories, Bellary.
: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

09.01.2023

6. Date of Sample Receipt

10.01.2023

7. Sample Code

583

8. Analysis Starting Date9. Analysis Completion Date

10.01.2023 12.01.2023

10. Sample Tested as Received

: 12.01.

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	Tolerance
Mayorin River of Transport			1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	50.1	51.8	49.8	μg / m³	50.57	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.8	23.1	21.4	μg / m³	22.43	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.05	11.05	8.9	μg / m³	9.67	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	19.15	19.7	17.8	μg / m³	18.88	80
5	Ozone as O ₃	IS 5182(part-9)	9.2	10.1	8.9	μg / m³	9.4	100
6	Lead	IS-5182(Part22)	0.030	0.029	0.028	μg / m³	0.029	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.42	0.43	0.41	mg/m³	0.42	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.10	1.9	1.8	ng / m³	1.6	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

The state of the s



Authorized Signatory
B.Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/254

1. Name of the Project

1. Name of the Project

Name of the location
 Sample Collected By

4. Particulars of the sample5. Date of Sampling

6. Date of Sample Receipt7. Sample Code

8. Analysis Starting Date9. Analysis Completion Date

Analysis Completion Date
 Sample Tested as Received

Issue Date: 12.01.2023

: M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

: Smiore Colony: MSV Analytical Laboratories, Bellary.

: Sample collected with RDS APM460 and FDS GTI-131

09.01.2023

: 10.01.2023 : 254

: 10.01.2023 : 12.01.2023

S.No	Parameter	Protocols	Shi	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status: The analyzed values for above measured parameter are within the limits
INFERENCE	Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

BALLARI SAL

B.Chinna Lingana Gouda
Chief executive of the laboratory

^{1.} The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in particular cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoic amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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TC-7207

MSVAL/A/F/16/03

Test Report No: TC720723000000472F

Issue Date: 12.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Kallahalli Village

ANALYSIS REPORT OF AMBIENT AIR QUALITY

3. Sample Collected By

MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

09.01.2023

6. Date of Sample Receipt

10.01.2023

7. Sample Code

: 586

8. Analysis Starting Date

: 10.01.2023

9. Analysis Completion Date

: 12.01.2023

10.	Sample To	ested as Received

S.No	Parameter /	Protocols	Shif	ft wise res	ults	Units	Result in Avg.	Tolerance limits
Since			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	57.2	58.1	56.4	μg / m³	57.23	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	20.4	21.6	19.5	μg / m³	20.50	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.9	10.2	8.9	µg / m³	9.67	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	14.35	14.8	12.6	μg / m³	13.92	80
5	Ozone as O ₃	IS 5182(part-9)	8.5	8.4	8.3	μg / m³	8.40	100
6	Lead	IS-5182(Part22)	0.034	0.033	0.032	μg / m³	0.033	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.29	0.30	0.28	mg/m³	0.29	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.11	1.10	1.9	ng / m³	1.4	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

- FND

Ley U.

B. Chiana Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/255

Issue Date: 12.01.2023

1. Name of the Project

 M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)
 Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
 Kallahalli Village

2. Name of the location

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

09.01.2023 10.01.2023

6. Date of Sample Receipt

255

7. Sample Code

: 10.01.2023

8. Analysis Starting Date

: 12.01.2023

Analysis Completion Date
 Sample Tested as Received

ived

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in Avg.	Tolerance limits
	Tarameter	1100000	1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

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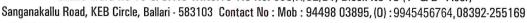
1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4.Total liability of our laboratory is limited to the invoic amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.

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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000473F

1. Name of the Project :

2.

3.

7.

10.

Issue Date: 12.01.2023
M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location : Vysanakere Village

Sample Collected By : MSV Analytical Laboratories, Bellary.

4. Particulars of the sample
5. Date of Sampling
5. Sample collected with RDS APM460 and FDS GTI-131
6. 09.01.2023

Date of Sample Receipt : 10.01.2023
Sample Code : 585

8. Analysis Starting Date : 10.01.2023 9. Analysis Completion Date : 12.01.2023

Sample Tested as Received

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result in Avg.	Tolerance limits
per-95-14551 ;			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	51.2	52.8	50.4	μg / m³	51.47	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	17.5	18.1	16.8	μg / m³	17.47	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.15	8.55	6.4	μg / m³	7.37	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	12.6	13.8	11.75	μg / m³	12.72	80
5	Ozone as O ₃	IS 5182(part-9)	6.8	5.8	4.1	μg / m³	5.57	100
6	Lead	IS-5182(Part22)	0.090	0.088	0.086	μg / m³	0.088	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.25	0.23	mg/m³	0.24	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.20	1.19	1.16	ng / m³	1.18	20

INFERENCE As per NAAQS Standards
Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

B. Chinna Lingana Gouda
Chief executive of the laboratory

Authorized Signatory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/256

Name of the Project 1.

Name of the location 2. Sample Collected By 3. 4. Particulars of the sample

Date of Sampling 5.

Date of Sample Receipt 6. Sample Code 7.

8. **Analysis Starting Date Analysis Completion Date** 9.

Sample Tested as Received

Issue Date: 12.01.2023

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Vysanakere Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

09.01.2023 10.01.2023

256

10.01.2023

12.01.2023

S.No	Parameter	Protocols	Shi	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status: The analyzed values for above measured parameter are within the limits
INFERENCE	As per NAAQS Standards Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{1.} The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000474F

1. Name of the Project

Issue Date: 12.01.2023
M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

Gunda Village

4. Particulars of the sample

MSV Analytical Laboratories, Bellary.
 Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

09.01.2023

6. Date of Sample Receipt

10.01.2023

7. Sample Code

: 584

8. Analysis Starting Date9. Analysis Completion Date

: 10.01.2023 : 12.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result in Avg.	Tolerance limits
5.110		Trotocolo	1	2	3	Omes		
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	54.2	55.1	53.4	μg / m³	54.23	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	16.2	17.8	15.4	μg / m³	16.47	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.5	8.9	6.6	$\mu g / m^3$	7.67	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	11.2	11.7	9.9	μg / m³	10.93	80
5	Ozone as O ₃	IS 5182(part-9)	8	9.1	7.9	μg / m³	8.33	100
6	Lead	IS-5182(Part22)	0.019	0.018	0.017	μg / m³	0.018	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.23	0.21	mg/m³	0.22	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.24	1.23	1.22	ng/m³	1.23	20

INFERENCE

As per NAAQS Standards

Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

TSW # ST

B. Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 12.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/257

1. Name of the Project

.

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

4. Particulars of the sample

5. Date of Sampling

6. Date of Sample Receipt

7. Sample Code

8. Analysis Starting Date

9. Analysis Completion Date
10. Sample Tested as Received

: Gunda Village

: MSV Analytical Laboratories, Bellary.

: Sample collected with RDS APM460 and FDS GTI-131

09.01.2023

10.01.2023

257

: 10.01.2023

: 12.01.2023

S.No	Parameter	Protocols	Shi	ift wise re	esults	Units	Result in Avg.	Tolerance limits
			1	2	3	V		
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoic amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.

24



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 9945456764, 08392-255169

Email: labmsy@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000638F

Issue Date: 14.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

Smiore Colony

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample 4.

Sample collected with RDS APM460 and FDS GTI-131 11.01.2023

Date of Sampling 5. **Date of Sample Receipt**

12.01.2023

6. Sample Code 7.

835

8. **Analysis Starting Date** 9.

12.01.2023 14.01.2023

Analysis Completion Date Sample Tested as Received

S.No	Parameter	Protocols	Shif	ft wise res	ults	Units	Result in Avg.	Tolerance limits
Direc			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	58.6	59.3	57.5	μg / m³	58.47	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	21.8	22.3	20.9	μg / m³	21.67	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.8	9.85	8.45	μg / m³	9.03	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	18	19.25	17.3	μg / m³	18.18	80
5	Ozone as O ₃	IS 5182(part-9)	9.0	8.9	7.2	μg / m³	8.37	100
6	Lead	IS-5182(Part22)	0.026	0.025	0.024	μg / m³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.40	0.41	0.39	mg/m³	0.40	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.5	1.4	1.3	ng / m³	1.4	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 14.01,2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/322

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Smiore Colony

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131 11.01.2023

5. Date of Sampling6. Date of Sample Receipt

: 12.01.2023

7. Sample Code

: 322

8. Analysis Starting Date

: 12.01.2023

9. Analysis Completion Date
10. Sample Tested as Received

14.01.2023

S.No	Parameter	Protocols	Sh	ift wise r	esults	Units	Result in Avg.	Tolerance limits
		, 1000000000000000000000000000000000000	1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4.Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an * are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000639F

Issue Date: 14.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location Kallahalli Village

Sample Collected By

MSV Analytical Laboratories, Bellary.

Particulars of the sample 4.

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling Date of Sample Receipt 6.

11.01.2023 12.01.2023

7. Sample Code 838

Analysis Starting Date 8.

12.01.2023

9. **Analysis Completion Date** Sample Tested as Received 14.01.2023

S.No	Parameter	Protocols	Shif	ft wise res	ults	Units	Result in Avg.	Tolerance limits
		Trotocois	1	2	3	J		
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	56.4	57.8	55.3	μg / m³	56.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	19.8	20.1	18.7	μg / m³	19.53	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.9	9.8	7.8	μg / m³	8.83	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	11.7	12.6	10.7	μg / m³	11.67	80
5	Ozone as O ₃	IS 5182(part-9)	8.2	8.1	8.0	μg / m³	8.10	100
6	Lead	IS-5182(Part22)	0.031	0.030	0.029	μg / m³	0.030	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.27	0.28	0.26	mg/m³	0.27	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.81	1.80	1.79	ng / m³	1.80	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

OF REPOR

Authorized Signatory B. Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 14.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/323

M/s. The Sandur Manganese & Iron Ores Ltd.

1. Name of the Project

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Kallahalli Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

11.01.2023 12.01.2023

6. Date of Sample Receipt

: 323

7. Sample Code

: 12.01.2023

Analysis Starting Date
 Analysis Completion Date

: 14.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance
	1		1	2	73		Avg.	limits
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

. Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an * are not accredited by NABL.

28



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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000640F

Issue Date: 14.01.2023

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Vysanakere Village

3. Sample Collected By

MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131 11.01.2023

5. Date of Sampling6. Date of Sample Receipt

12.01.2023

7. Sample Code

837

7. Sample Code 8. Analysis Starting Date

12.01.2023

9. Analysis Completion Date

14.01.2023

10. Sample Tested as Received

Shift wise results Result Tolerance Protocols Units S.No Parameter in Avg. limits 1 2 3 100 1 Particulate Matter PM₁₀ IS-5182(Part-23) 50.8 51.6 49.5 $\mu g / m^3$ 50.63 LAB SOP 2 Particulate Matter or PM2.5 16.1 17.8 15.4 $\mu g / m^3$ 16.43 60 MSVAL/SOP/A/005 3 Sulphur Dioxide as SO₂ IS-5182(Part-2) 7.45 7.65 5.45 $\mu g / m^3$ 6.85 80 4 Oxides of Nitrogen as NOx IS-5182(Part-6) 12.45 13.25 11.15 $\mu g / m^3$ 12.28 80 3.9 2.9 3.30 100 IS 5182(part-9) 3.1 $\mu g / m^3$ 5 Ozone as O3 IS-5182(Part22) 0.84 0.083 0.082 0.335 1 6 Lead $\mu g / m^3$ LAB SOP 7 Carbon Monoxide as CO 0.22 0.23 0.21 mg/m^3 0.22 2 MSVAL/SOP/A/007 LAB SOP 400 8 Ammonia as NH₃ < 0.01 < 0.01 < 0.01 $\mu g / m^3$ < 0.01 MSVAL/SOP/A/006 LAB SOP 20 9 Nickel as Ni 1.14 1.13 1.12 ng/m^3 1.13 MSVAL/SOP/A/008

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

-: END OF REPORT

B. Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellarv.com

MSVAL/A/F/16/03

Issue Date: 14.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/324

Name of the Project

2. Name of the location 3. Sample Collected By

Particulars of the sample 4. Date of Sampling 5.

Date of Sample Receipt 6. 7. Sample Code

8. **Analysis Starting Date**

Analysis Completion Date Sample Tested as Received M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant) . Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Vysanakere Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

11.01.2023 12.01.2023

324

12.01.2023

14.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
		/ ·	1	2 (3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

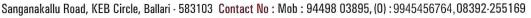
2 1

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an * are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000641F

Issue Date: 14.01.2023

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

11.01.2023

6. Date of Sample Receipt

: 12.01.2023

7. Sample Code

: 836

8. Analysis Starting Date

: 12.01.2023

Analysis Completion Date
 Sample Tested as Received

14.01.2023

S.No	Parameter	Protocols	Shif	ft wise res	ults	Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	53.8	52.1	51.1	μg / m³	52.33	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	15.4	14.3	13.1	μg / m³	14.27	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	6.65	6.2	4.25	μg / m³	5.70	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	10	8.8	8.15	μg / m³	8.98	80
5	Ozone as O ₃	IS 5182(part-9)	7.1	6.9	5.1	μg / m³	6.37	100
6	Lead	IS-5182(Part22)	0.013	0.012	0.011	μg / m³	0.012	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.20	0.21	0.22	mg/m³	0.21	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.20	1.19	1.18	ng / m³	1.19	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

ALVO EREPORTO

Authorized Signatory
B. Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

 $^{5.} Sampling is not done \ by \ us \ unless \ otherwise \ specified. \ 6. \ The \ tests \ and/or \ calibrations \ marked \ with \ an \ are \ not \ accredited \ by \ NABL.$



(Certified by ISO 14001-2004, OHSAS18001-2007, ISO 9001-2008)

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E-mail: msv.lab01@gmail.com, Labmsv@gmail.com, Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 14.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/325

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

3. Sample Collected By

Particulars of the sample 4.

Date of Sampling 5. **Date of Sample Receipt** 6.

7. Sample Code

Analysis Starting Date 8.

Analysis Completion Date Sample Tested as Received **Gunda Village**

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

11.01.2023 12.01.2023

325

12.01.2023 14.01.2023

S.No	Parameter	Protocols	Sh	ift wise r	esults	Units	Result in Avg.	Tolerance limits
			1	2	73			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only, 5. Sampling is not done by us unless otherwise specified, 6. The tests and/or calibrations marked with an * are not accredited by NABL.

32



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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor) Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

5

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00016

Issue Date: 20.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

2. Name of the location

3. Sample Collected By

Particulars of the sample

Date of Sampling 5.

7. Sample Code

8. **Analysis Starting Date**

Date of Sample Receipt 6.

9. **Analysis Completion Date**

Hospet Taluk, Bellary District, Karnataka. **Smiore Colony**

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

17.01.2023

18.01.2023 00029

18.01.2023 20.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result in Avg.	Tolerance limits
		- 1 - 1 - 1 - 1 - 1	1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.1	51.2	50.2	μg / m³	51.17	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	21.3	20.2	19.2	μg / m³	20.23	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	15.0	14.0	12.9	μg / m³	13.97	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	18.6	17.8	16.7	μg / m³	17.70	80
5	Ozone as O ₃	IS 5182(part-9)	9.4	8.3	8.0	μg / m³	8.63	100
6	Lead	IS-5182(Part22)	0.032	0.038	0.030	μg / m³	0.033	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.52	0.36	mg/m³	0.45	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.24	1.20	ng/m³	1.24	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00016

Issue Date: 20.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Smiore Colony

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

17.01.2023

6. Date of Sample Receipt

: 18.01.2023 : 00029

7. Sample Code

10.01.20

8. Analysis Starting Date
9. Analysis Completion Dat

: 18.01.2023 : 20.01.2023

9. Analysis Completion Date

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
5.110			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

IS O

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00017

Issue Date: 20.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2 Name of the location

Sample Collected By

Particulars of the sample

Date of Sampling Date of Sample Receipt

Sample Code

10.

9. **Analysis Completion Date**

R **Analysis Starting Date**

Sample Tested as Received

Kallahalli Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

17.01.2023

18.01.2023

00032 18.01.2023

20.01.2023

S.No	Parameter	Protocols	Shif	ft wise res	ults	Units	Result	Tolerance limits
			1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.2	51.2	50.2	μg / m³	51.20	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.8	17.3	16.2	μg / m³	17.43	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	11.9	10.9	9.9	μg / m³	10.90	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	16.2	14.8	13.7	μg / m³	14.90	80
5	Ozone as O ₃	IS 5182(part-9)	8.3	8.8	8.0	μg / m³	8.37	100
6	Lead	IS-5182(Part22)	1.36	1.32	1.30	μg / m³	1.33	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.38	0.32	mg/m³	0.33	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.41	1.36	1.28	ng / m³	1.35	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B. Chiwna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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E-mail: msvalbellarv2018@gmail.com, labmsv@gmail.com Website: www.msvalbellarv.com

MSVAL/A/F/16/03

Issue Date: 20.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00017 Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location

Sample Collected By

Kallahalli Village MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

17.01.2023 18.01.2023

6. **Date of Sample Receipt**

7. Sample Code 00032

Analysis Starting Date 8.

18.01.2023

9. **Analysis Completion Date** 20.01.2023

Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3	L		
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signator **B.Chinna Lingana Gouda** Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Recognition by MoEF under Environment (Protection) Act, 1986

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00018

Issue Date: 20.01.2023

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Vysanakere Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling6. Date of Sample Receipt

17.01.2023 : 18.01.2023

7. Sample Code 8. Analysis Starting D : 00030

8. Analysis Starting Date9. Analysis Completion Date

18.01.2023

10. Sample Tested as Received

: 20.01.2023

S.No	Parameter	Protocols	Shif	t wise res	ults	Units	Result	Tolerance
	-245		1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	55.5	54.2	53.5	μg / m³	54.40	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.4	17.2	15.4	μg / m³	17.00	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.1	8.1	7.15	µg / m³	8.12	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	14.8	13.7	12.65	μg / m³	13.72	80
5	Ozone as O ₃	IS 5182(part-9)	8.8	9.4	8.0	μg / m³	8.73	100
6	Lead	IS-5182(Part22)	0.028	0.024	0.022	µg / m³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.24	0.20	mg/m³	0.24	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.31	1.22	1.24	ng/m³	1.26	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

TICAL LA OORANIO RAPIO STANDON TO STAND OF THE PORT OF

Authorized Signatory
B. Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015,ISO 22000-2018, ISO 45001-2018.ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00018

Issue Date: 20.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

Vysanakere Village

3. Sample Collected By MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling Date of Sample Receipt

17.01.2023 18.01.2023

6.

00030

Sample Code

Analysis Starting Date 8.

18.01.2023

Analysis Completion Date 9

20.01.2023

1	.0.	Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015,ISO 22000-2018, ISO 45001-2018,ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)
Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00019

Issue Date: 20.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

17.01.2023

6. Date of Sample Receipt7. Sample Code

: 00031

8. Analysis Starting Date

: 18.01.2023

9. Analysis Completion Date

: 18.01.2023

10. Sample Tested as Received

: 20.01.2023

S.No	Parameter	Protocols	Shif	t wise res	ults	Units	Result	Tolerance limits
Dilito		Low April 1	1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	54.2	53.2	52.2	μg / m³	53.20	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	16.3	15.2	14.2	µg / m³	15.23	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.0	8.4	7.1	μg / m³	8.17	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	18.0	16.7	15.65	μg / m³	16.78	80
5	Ozone as O ₃	IS 5182(part-9)	7.8	6.2	5.8	μg / m³	6.60	100
6	Lead	IS-5182(Part22)	1.41	1.36	1.28	μg / m³	1.350	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.29	0.26	0.24	mg/m³	0.26	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.24	1.20	ng/m³	1.24	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

BALLARI PA

B. Chinna Lingana Gouda
Chief executive of the laboratory

Authorized Signatory

ote: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015,ISO 22000-2018, ISO 45001-2018,ISO 9001-2015)

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 20.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00019

M/s. The Sandur Manganese & Iron Ores Ltd.

Name of the Project

(Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

2 Name of the location **Gunda Village**

Sample Collected By

MSV Analytical Laboratories, Bellary.

Particulars of the sample 4

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling Date of Sample Receipt 6.

17.01.2023 18.01.2023

Sample Code

00031

18.01.2023

8. **Analysis Starting Date** 9. **Analysis Completion Date**

20.01.2023

Sample Tested as Received

10.

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE	As per NAAQS Standards
INFERENCE	Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signator

B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)

Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/147

Issue Date: 23.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

3. Sample Collected By

4. Particulars of the sample

Date of Sampling

Date of Sample Receipt 6.

7. Sample Code **Analysis Starting Date** 8.

9.

Analysis Completion Date Sample Tested as Received

Smiore Colony

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

19.01.2023

20.01.2023 00196

20.01.2023

23.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	Tolerance
	= <u>}</u> /		1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	51.4	50.3	59.3	μg / m³	52.33	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.8	23.7	21.0	μg / m³	22.50	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.88	10.98	8.74	μg / m³	9.87	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	17.77	18.67	16.32	μg / m³	17.59	80
5	Ozone as O ₃	IS 5182(part-9)	12.6	11.4	10.6	μg / m³	11.53	100
6	Lead	IS-5182(Part22)	0.030	0.028	0.022	μg / m³	0.030	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.42	0.38	0.32	mg/m³	0.37	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.26	1.24	1.22	ng/m³	1.24	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

Page:1

. . .

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/147

Issue Date: 23.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location **Smiore Colony**

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

9.

19.01.2023 20.01.2023

Date of Sample Receipt Sample Code

00196

Analysis Starting Date

20.01.2023

Analysis Completion Date Sample Tested as Received

23.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
	-4/		1	2	3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1 .
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status: The analyzed values for above measured parameter are within the limits
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Analysed by



Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

Page:2

1. The results listed only to the tested samples & applicable parameters,

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/150

Issue Date: 23.01.2023

1. Name of the Project

 M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Kallahalli Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample5. Date of Sampling

: Sample collected with RDS APM460 and FDS GTI-131

6. Date of Sample Receipt

19.01.2023 : 20.01.2023 : 00199

7. Sample Code8. Analysis Starting Date

: 20.01.2023

Analysis Completion Date
 Sample Tested as Received

: 23.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	Tolerance limits
Direc	-35		1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	55.6	56.7	54.2	μg / m³	55.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.8	19.9	17.6	μg / m³	18.77	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	10.06	10.26	9.19	μg / m³	9.84	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	17.57	19.26	9.19	μg / m³	15.34	80
5	Ozone as O ₃	IS 5182(part-9)	10.7	9.4	8.4	μg / m³	9.50	100
6	Lead	IS-5182(Part22)	0.026	0.030	0.020	μg / m³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.32	0.24	mg/m³	0.27	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400

INFERENCE As per NAAQS Standards
Report Status :- The analyzed values for above measured parameter are within the limits

1.28

1.24

1.20

Analysed by

Nickel as Ni

9

SATUARI SEND OF REPORT:

LAB SOP

MSVAL/SOP/A/008

Authorized Signatory
B. Chinna Lingana Gouda
Chief executive of the laboratory

ng/m³

1.24

Page:1

20

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 23.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/150

1. Name of the Project

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2. 3. Sample Collected By

Particulars of the sample 4.

Date of Sampling Date of Sample Receipt

Sample Code 7.

8. **Analysis Starting Date**

9.

Analysis Completion Date Sample Tested as Received M/s. The Sandur Manganese & Iron Ores Ltd.

Kallahalli Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

19.01.2023

20.01.2023

00199

20.01.2023

23.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in	Tolerance
	40	V	1	2	3	L	Avg.	limits
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5 -
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by



Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

Page:2

1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/149

Issue Date: 23.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka. Vysanakere Village

Name of the location

3. Sample Collected By MSV Analytical Laboratories, Bellary.

Particulars of the sample 4.

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

19.01.2023 20.01.2023

Date of Sample Receipt 6. Sample Code

00198

Analysis Starting Date 8.

20.01.2023

Analysis Completion Date

23.01.2023

Sample Tested as Received 10.

S.No	Parameter	Protocols	Shif	t wise res	ults	Units	Result in Avg.	Tolerance limits
		CALLAN	1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	58.6	57.1	56.2	μg / m³	57.30	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.6	21.0	20.1	μg / m³	21.23	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.04	7.82	7.01	μg / m³	7.96	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	16.76	16.06	15.41	μg / m³	16.08	80
5	Ozone as O ₃	IS 5182(part-9)	8.8	9.2	7.6	μg / m³	8.53	100
6	Lead	IS-5182(Part22)	0.029	0.026	0.024	μg / m³	0.026	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.32	0.24	mg/m³	0.28	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.27	1.29	1.25	ng/m³	1.27	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by



B. Chinna Lingana Gouda Chief executive of the laboratory

Page:1

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/149

Issue Date: 23.01.2023

1. Name of the Project M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location

Vysanakere Village

3. Sample Collected By MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

19.01.2023 20.01.2023

Date of Sample Receipt Sample Code

00198

Analysis Starting Date 8.

20.01.2023

9. **Analysis Completion Date** 23.01.2023

Sample Tested as Received 10.

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
100000000000000000000000000000000000000			1	2	3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

As per NAAQS Standards INFERENCE Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

Page:2

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellarv2018@gmail.com, labmsv@gmail.com Website: www.msvalbellarv.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/148

Issue Date: 23.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

Particulars of the sample
 Date of Sampling

Sample collected with RDS APM460 and FDS GTI-131 19.01.2023

6. Date of Sample Receipt

: 20.01.2023 : 00197

7. Sample Code8. Analysis Starting Date

: 20.01.2023

9. Analysis Completion Date

: 23.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shif	t wise res	ults	Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	59.3	58.7	57.1	μg / m³	58.37	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	23.4	22.5	21.2	μg / m³	22.37	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.19	8.54	7.15	μg / m³	8.29	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	16.11	14.26	14.20	μg / m³	14.86	80
5	Ozone as O ₃	IS 5182(part-9)	8.8	8.0	6.8	μg / m³	7.87	100
6	Lead	IS-5182(Part22)	0.030	0.028	0.026	μg / m³	0.0 28	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.34	0.30	mg/m³	0.31	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.26	1.24	ng / m³	1.26	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

ENA OFARPORT

B. Chima Lingana Gouda Chief executive of the laboratory

Authorized Signatory

Page:1

Note: 1. The results listed only to the tested samples & applicable parameters,

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

Issue Date: 23.01.2023

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/148

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling6. Date of Sample Receipt

19.01.2023 : 20.01.2023

Gunda Village

7. Sample Code

00197

8. Analysis Starting Date

: 20.01.2023

9. Analysis Completion Date

: 23.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	esults	Units	Result in	Tolerance limits
	40		1	2	3		Avg.	IIIIIIII
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INCEDENCE	As per NAAQS Standards
INFERENCE	Report Status :- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinno Lingana Gouda Chief executive of the laboratory

Page:2

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

7

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00551

Issue Date: 28.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

Smiore Colony

Sample Collected By

MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131 24.01.2023

Date of Sampling 6. **Date of Sample Receipt**

25.01.2023

7. Sample Code

00683

Analysis Starting Date 8. **Analysis Completion Date** 9

25.01.2023 28.01.2023

Sample Tested as Received

Shift wise results Tolerance Result S.No Parameter Protocols Units in Avg. limits 1 2 3 1 Particulate Matter PM₁₀ IS-5182(Part-23) 58 58.6 59 $\mu g / m^3$ 58.5 100 LAB SOP 22 60 2 Particulate Matter or PM2.5 21.1 21.5 $\mu g / m^3$ 21.5 MSVAL/SOP/A/005 3 Sulphur Dioxide as SO₂ IS-5182(Part-2) 9.45 9.8 10.5 9.9 80 $\mu g / m^3$ 4 Oxides of Nitrogen as NOx IS-5182(Part-6) 20 20.6 21.2 $\mu g / m^3$ 20.6 80 100 IS 5182(part-9) < 0.01 < 0.01 < 0.01 $\mu g / m^3$ < 0.01 5 Ozone as O₃ Lead IS-5182(Part22) 0.080 0.081 0.082 $\mu g / m^3$ 0.081 1 6 LAB SOP 7 0.28 0.28 2 Carbon Monoxide as CO 0.30 0.26 mg/m^3 MSVAL/SOP/A/007 LAB SOP 8 Ammonia as NH₃ < 0.01 < 0.01 < 0.01 < 0.01 400 $\mu g / m^3$ MSVAL/SOP/A/006 LAB SOP 9 Nickel as Ni 1.20 1.21 1.22 1.21 20 ng/m^3 MSVAL/SOP/A/008

As per NAAQS Standards INFERENCE

Report Status:- The analyzed values for above measured parameter are within the limits

B.Chinna Lingana Gouda Chief executive of the laboratory

Analysed by

Note: 1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.

110



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00551

Issue Date: 28.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location

Smiore Colony Sample Collected By

3. 4. Particulars of the sample MSV Analytical Laboratories, Bellary. Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

24.01.2023

Date of Sample Receipt 6.

25.01.2023

Sample Code **Analysis Starting Date** R.

00683

25.01.2023 28.01.2023

9. **Analysis Completion Date**

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	Shift wise results Units		Units Result in		
		F LETT - 1 ,	1	2	3	<u>k</u>	Avg.	limits
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are	within the limits
--	-------------------

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00552

Name of the Project

Issue Date: 28.01.2023 M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

3. Sample Collected By

4. Particulars of the sample **Date of Sampling**

Date of Sample Receipt 6.

7. Sample Code

Analysis Starting Date 8. 9. **Analysis Completion Date**

Sample Tested as Received

Kallahalli Village

MSV Analytical Laboratories, Bellary.

Sample collected with RDS APM460 and FDS GTI-131

24.01.2023

25.01.2023 00686

25.01.2023

28.01.2023

S.No	Parameter	Protocols	Shif	ft wise re <mark>s</mark>	ults	Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	51.1	51.8	52.3	μg / m³	51.7	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	17.2	17.6	18.4	μg / m³	17.7	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.75	8.15	8.75	μg / m³	8.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	14.6	15.2	15.8	μg / m³	15.2	80
5	Ozone as O ₃	IS 5182(part-9)	8.2	8.4	8.0	μg / m³	8.2	100
6	Lead	IS-5182(Part22)	0.030	0.031	0.032	μg / m³	0.031	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.24	0.20	mg/m³	0.22	2
8	Ammonia as NH₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.12	1.13	1.14	ng / m³	1.13	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

B. Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00552

Issue Date: 28.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Kallahalli Village

3. Sample Collected By
4. Particulars of the sample

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

: Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling6. Date of Sample Receipt

24.01.2023 : 25.01.2023

7. Sample Code

: 00686

8. Analysis Starting Date

: 25.01.2023

9. Analysis Completion Date

: 28.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in	Tolerance
	30)	1	2	3		Avg.	limits
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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Analysed by

END OF REPORTARI

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellarv2018@gmail.com, labmsv@gmail.com Website: www.msvalbellarv.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00553

Issue Date: 28.01.2023

Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location

Vysanakere Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131 24.01.2023

Date of Sampling **Date of Sample Receipt** Sample Code

25.01.2023 00684

Analysis Starting Date 8. **Analysis Completion Date** 25.01.2023 28.01.2023

10. Sample Tested as Received

S.No	Parameter	Protocols	Shi	ft wise resi	ılts	Units	Result	Tolerance
	1	7	1	2	3		in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52	53	53.8	μg / m³	52.9	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	13.2	14	14.9	μg / m³	14.0	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	6.05	6.75	7.05	μg / m³	6.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	11	11.6	12.2	μg / m³	11.6	80
5	Ozone as O ₃	IS 5182(part-9)	6.2	6.4	6.0	μg / m³	6.2	100
6	Lead	IS-5182(Part22)	0.022	0.023	0.024	μg / m³	0.023	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.40	0.36	mg/m³	0.38	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.34	1.35	1.36	ng / m³	1.35	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory - Cl. 2 B. Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00553

Issue Date: 28.01.2023

1. Name of the Project M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location 2.

Vysanakere Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample **Date of Sampling**

Sample collected with RDS APM460 and FDS GTI-131

5. **Date of Sample Receipt** 6.

24.01.2023 25.01.2023

Sample Code 7.

00684

Analysis Starting Date 8.

25.01.2023

9. **Analysis Completion Date** 28.01.2023

Sample Tested as Received 10

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
		× 1	1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5 .
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

As per NAAQS Standards INFERENCE Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00554

Issue Date: 28.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample5. Date of Sampling

: Sample collected with RDS APM460 and FDS GTI-131

6. Date of Sample Receipt

24.01.2023 : 25.01.2023

7. Sample Code

: 00685

8. Analysis Starting Date9. Analysis Completion Date

: 25.01.2023

10. Sample Tested as Received

: 28.01.2023

S.No	Parameter	Protocols	Shii	ft wise res	ılts	Units	Result	Tolerance limits
00			1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	54.9	55.5	56	μg / m³	55.5	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	20	20.4	21	μg / m³	20.5	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	6.5	6.7	7.05	μg / m³	6.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	15.85	16.4	17	μg / m³	16.4	80
5	Ozone as O ₃	IS 5182(part-9)	8.2	8.4	8.0	μg / m³	8.2	100
6	Lead	IS-5182(Part22)	0.020	0.021	0.022	μg / m³	0.021	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.24	0.20	mg/m³	0.22	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.20	1.21	1.22	ng/m³	1.21	20

INFERENCE

As per NAAQS Standards

Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

N CONTINUES

B. Chinna Lingana Gouda
Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00554

Issue Date: 28.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka. **Gunda Village**

Name of the location

Sample Collected By

MSV Analytical Laboratories, Bellary. Sample collected with RDS APM460 and FDS GTI-131

Particulars of the sample **Date of Sampling**

24.01.2023 25.01.2023

Date of Sample Receipt

00685 25.01.2023

28.01.2023

Sample Code **Analysis Starting Date** 8.

9. **Analysis Completion Date**

Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
	AC.	= =	1	2	3		Avg.	
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	6

INFERENCE	As per NAAQS Standards
INFERENCE	Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory B.Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

8

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00973

Issue Date: 31.01.2023

1. Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Smiore Colony

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample5. Date of Sampling

: Sample collected with RDS APM460 and FDS GTI-131

6. Date of Sample Receipt

28.01.2023 : 29.01.2023

7. Sample Code8. Analysis Starting Date

10.

: 1159 : 29.01.2023

9. Analysis Completion Date

Sample Tested as Received

: 31.01.2023

S.No	Parameter	Protocols	Shi	ft wise resu	ılts	Units	Result	Tolerance limits
		- 22 - 1	1	2	3		in Avg.	
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.0	52.6	53.0	μg / m³	52.53	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	25	25.4	26	μg / m³	25.47	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.45	10.15	10.55	μg / m³	10.05	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	18.8	19.4	19.4	μg / m³	19.20	80
5	Ozone as O ₃	IS 5182(part-9)	12.4	12.6	12.2	μg / m³	12.40	100
6	Lead	IS-5182(Part22)	0.024	0.025	0.023	μg / m³	0.024	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.26	0.22	mg/m³	0.24	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.34	1.33	1.32	ng / m³	1.33	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

BALLANI AS BALLANI STREET

B.Chima Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)

C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor) Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00973

Issue Date: 31.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere<mark>,</mark> Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

Name of the location

Sample Collected By

Smiore Colony

Particulars of the sample

MSV Analytical Laboratories, Bellary. Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling

28.01.2023 29.01.2023

Date of Sample Receipt

Sample Code 8.

1159 29.01.2023

Analysis Starting Date Analysis Completion Date 9.

31.01.2023

Sample Tested as Received

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	< 0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	1
12	Arsenic as As	CPCB Procedure	< 0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00974

Issue Date: 31.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Kallahalli Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample
5. Date of Sampling

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling6. Date of Sample Receipt

28.01.2023 29.01.2023

7. Sample Code

1160

8. Analysis Starting Date

: 29.01.2023

Analysis Completion Date
 Sample Tested as Received

: 31.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result in Avg.	Tolerance limits
		1	1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	55.1	55.6	56.2	μg / m³	55.63	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	17.6	18.1	18.6	μg / m³	18.10	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.75	8.1	8.75	μg / m³	8.20	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	18.2	20.5	19.35	μg / m³	19.35	80
5	Ozone as O ₃	IS 5182(part-9)	8.4	8.6	8.2	μg / m³	8.40	100
6	Lead	IS-5182(Part22)	0.026	0.027	0.025	μg / m³	0.026	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.32	0.28	mg/m³	0.30	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.29	1.27	ng / m³	1.28	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

-: ENDO

Authorized Signatory

B. Chima Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015,ISO 22000-2018, ISO 45001-2018.ISO 9001-2015)

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00974

Issue Date: 31.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

Kallahalli Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling

28.01.2023 29.01.2023

6. Date of Sample Receipt7. Sample Code

1160

8. Analysis Starting Date

: 29.01.2023

9. Analysis Completion Date

: 31.01.2023

10. Sample Tested as Received

1067

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
			1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signator

B.Chinka Lingana Gouda Chief executive of the laboratory

Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00975

Issue Date: 31.01.2023

Name of the Project

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village,

Hospet Taluk, Bellary District, Karnataka.

2 Name of the location

Vysanakere Village

Sample Collected By

MSV Analytical Laboratories, Bellary.

4 Particulars of the sample **Date of Sampling**

Sample collected with RDS APM460 and FDS GTI-131

Date of Sample Receipt 6.

28.01.2023 29.01.2023

7. Sample Code 8. **Analysis Starting Date** 1161 29.01.2023

9. **Analysis Completion Date**

10. Sample Tested as Received 31.01.2023

S.No	Parameter	Protocols	Shi	ft wise res	ults	Units	Result	Tolerance
5.110	Turumeter	/ / / / / / / / / / / / / / / / / / / /	1	2	3	0	in Avg.	limits
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	59	59.6	60.2	μg / m³	59.60	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.8	23.4	24	μg / m³	23.40	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.45	9.1	9.45	μg / m³	9.00	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	17.6	18.25	18.8	μg / m ³	18.22	80
5	Ozone as O ₃	IS 5182(part-9)	8.6	8.8	8.4	μg / m³	8.60	100
6	Lead	IS-5182(Part22)	0.026	0.025	0.024	μg / m³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.26	0.22	mg/m³	0.24	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.37	1.36	1.35	ng / m³	1.36	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory - U-1 B. Chinna Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



Recognition by MoEF under Environment (Protection) Act, 1986 (Certified by ISO-14001-2015,ISO 22000-2018, ISO 45001-2018,ISO 9001-2015)

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00975

Issue Date: 31.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

3. Sample Collected By

4. Particulars of the sample

5. Date of Sampling

6. Date of Sample Receipt7. Sample Code

8. Analysis Starting Date

Analysis Completion Date
 Sample Tested as Received

: Vysanakere Village

: MSV Analytical Laboratories, Bellary.

: Sample collected with RDS APM460 and FDS GTI-131

28.01.2023

29.01.2023 1161

: 29.01.2023

: 31.01.2023

S.No	Parameter	Protocols	Sh	ift wise re	sults	Units	Result in Avg.	Tolerance limits
		A STATE OF THE STA	1	2	3			
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	μg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE

As per NAAQS Standards
Report Status: - The analyzed values for above measured parameter are within the limits

Analysed by

BATTARY OR A

Authorized Signatory
B.Chinna Lingana Gouda
Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellarv2018@gmail.com, labmsv@gmail.com Website: www.msvalbellarv.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00976

Issue Date: 31.01.2023

1. Name of the Project M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Name of the location

Gunda Village

Sample Collected By 3.

MSV Analytical Laboratories, Bellary.

Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

Date of Sampling **Date of Sample Receipt** 6.

29.01.2023

Sample Code 7.

1162

29.01.2023

Analysis Starting Date 8. 9. **Analysis Completion Date**

31.01.2023

10.

Sample Tested as Received

S.No	Parameter	Protocols	Shii	t wise res	ults	Units	Result in Avg.	Tolerance limits
00	T di dineter	7700000	1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	59	59.6	60	μg / m³	59.53	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.5	22.8	23.2	μg / m³	22.83	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.45	8.8	9.2	μg / m³	8.82	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	16.95	17.55	17.6	μg / m³	17.37	80
5	Ozone as O ₃	IS 5182(part-9)	<0.01	<0.01	<0.01	μg / m³	<0.01	100
6	Lead	IS-5182(Part22)	0.025	0.024	0.023	μg / m³	0.024	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.30	0.26	mg/m³	0.28	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	μg / m³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.24	1.23	1.22	ng / m³	1.23	20

INFERENCE

As per NAAQS Standards

Report Status:- The analyzed values for above measured parameter are within the limits

Analysed by

B. Chima Lingana Gouda Chief executive of the laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00976

Issue Date: 31.01.2023

1. Name of the Project

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Name of the location

: Gunda Village

3. Sample Collected By

: MSV Analytical Laboratories, Bellary.

4. Particulars of the sample

Sample collected with RDS APM460 and FDS GTI-131

5. Date of Sampling6. Date of Sample Receipt

28.01.2023 29.01.2023

7. Sample Code

1162

8. Analysis Starting Date

29.01.2023

Analysis Completion Date
 Sample Tested as Received

31.01.2023

S.No	Parameter	Protocols Shift wise results 1 2 3	Units Result in		Tolerance limits			
	10		1	2	3		Avg.	iiiiits
10	Benzene as C ₆ H ₆	IS:5182(part 11)	<0.01	<0.01	<0.01	µg / m³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng/m³	<0.01	6

INFERENCE	As per NAAQS Standards Report Status: The analyzed values for above measured parameter are within the limits

Analysed by

Authorized Signatory

B.Chima Lingana Gouda Chief executive of the laboratory

1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.



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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No:MSVAL/2023/000599

Name of the Industry

2. Stack ID

Sample Collected By 3.

4. **Particulars of Sample Collected**

Date of Sample Receipt 5.

Sample Code 6.

7. **Analysis Starting Date**

Analysis Completion Date 8. Sample Tested as Received Report Issued Date: 28.01.2023

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Coke Screening& Store

MSV Analytical Laboratories, Bellary.

Sample collected with VSS - 1

24.01.2023

732

25.01.2023

28.01.2023

CENTED	AY	DE	T A	TT	0
GENER	A .	DH.	A		. •

Date of Monitoring	24.01.2023
Fuel Used	1/0//
Stack Temperature (°C)	41
Velocity (m/s)	6.2
Height (m)	15mtrs AGL
Diameter (m)	0.7
Cross sectional area (m ²)	0.38465

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	28.3	50

6.35.33	As per GSR 277 (E) Standards.
INFERENCE	Report Status:- The analyzed value for above measured parameter is
	within the limits.

Analysed by

Authorized Signatory - colile B.Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

^{3.} This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No:MSVAL/2023/000600

Report Issued Date: 28.01.2023

1. Name of the Industry

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

2. Stack ID :

: MSV Analytical Laboratories, Bellary.

3. Sample Collected By4. Particulars of Sample Collected

: Sample collected with VSS - 1

5. Date of Sample Receipt

: 24.01.2023

6. Sample Code

: 733

7. Analysis Starting Date8. Analysis Completion Date

: 25.01.2023

Coke Cutter

9. Sample Tested as Received

: 28.01.2023

GENERAL DETAILS

Date of Monitoring	24.01.2023		
Fuel Used			
Stack Temperature (°C)	32		
Velocity (m/s)	3.1		
Height (m)	15mtrs AGL		
Diameter (m)	0.7		
Cross sectional area (m²)	0.38465		

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm³	26	50

INFERENCE	As per KSPCB Standards Report Status :- The analyzed value for above measured parameter is within the limits.
-----------	---

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory





^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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^{4.} Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.

^{5.} Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor) Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No: Mob: 94498 03895, (0): 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No:MSVAL/2023/000601

Report Issued Date: 25.01.2023

Name of the Industry

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Coal Crushing Area Stack ID 2.

MSV Analytical Laboratories, Bellary. Sample Collected By 3.

Sample collected with VSS - 1 Particulars of Sample Collected 4.

24.01.2023 5. **Date of Sample Receipt**

6. Sample Code

734 7. **Analysis Starting Date** 25.01.2023 **Analysis Completion Date** 28.01.2023 8.

Sample Tested as Received

GENERAL DETAILS

GENERAL DETTILES					
Date of Monitoring	24.01.2023				
Fuel Used					
Stack Temperature (°C)	31				
Velocity (m/s)	5.0				
Height (m)	15mtrs AGL				
Diameter (m)	0.75				
Cross sectional area (m ²)	0.44156				

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards		
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm³	24	50		

As per KSPCB Standards Report Status :- The analyzed value for above measured parameter is
within the limits.

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msyalbellar

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No: TC720723000000735F

Report Issued Date: 15.01.2023

Name of the Industry 1.

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Stack ID 2.

Ferro Alloy Arc Furnace 5

3. Sample Collected By MSV Analytical Laboratories, Bellary.

4. **Particulars of Sample Collected** Sample collected with VSS - 1 12.01.2023

Date of Sample Receipt 5. Sample Code 6.

980

Analysis Starting Date 7.

13.01.2023

8. **Analysis Completion Date** 15.01.2023

Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	12.01.2023
Fuel Used	K) (7)
Stack Temperature (°C)	42
Velocity (m/s)	6.84
Height (m)	35 mtrs AGL
Diameter (m)	2.5
Cross sectional area (m²)	4.90625
Flow/Discharge Rate of Gas Nm³/Hr	120811.5

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm³	33.3	150
Sulphur dioxide	IS-11255(Part2) – mg/Nm ³ 21.1		800	
Nitrogen dioxide IS-11255(Part7) - mg		mg/Nm³	46.4	500
Carbon Monoxide as(CO) IS 13270		%	0.20	Max 1%
Oxygen as O2 Instrument Method % 5		5.9		

As per GSR 277 (E) Standards. **INFERENCE** Report Status:- The analyzed value for above measured parameter is within the limits.

Analysed by

B.Chinna Lingana Gouda Chief executive of the laboratory

Authorized Signatory

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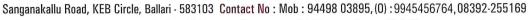
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Email : labmsy@gmail.com, msyalbellary2018@gmail.com, msy.lab01@gmail.com Web ID : www.msyalbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No: TC720723000000736F

Particulars of Sample Collected

1. Name of the Industry

Stack ID

Sample Code

2.

3.

4.

5.

6.

7.

Report Issued Date: 15.01.2023

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Ferro Alloy Arc Furnace 3

MSV Analytical Laboratories, Bellary.

Sample collected with VSS - 1

12.01.2023

982

13.01.2023

15.01.2023

Analysis Starting Date Analysis Completion Date 8. 9.

Date of Sample Receipt

Sample Collected By

Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	12.01.2023
Fuel Used	10412-
Stack Temperature (°C)	44
Velocity (m/s)	6.12
Height (m)	35 mtrs AGL
Diameter (m)	2.5
Cross sectional area (m²)	4.90625
Flow/Discharge Rate of Gas Nm ³ /Hr	108094.5

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter IS-11255(Part1) - 1985		mg/Nm ³	32.6	150
Sulphur dioxide IS-11255(Part2) – mg/Nm³ 21.8		21.8	800	
Nitrogen dioxide IS-11255(Part7) - mg/Nm ³		42.2	500	
Carbon Monoxide as(CO) IS 13270		%	0.26	Max 1%
Oxygen as O2	Instrument Method		5.8	

As per GSR 277 (E) Standards. INFERENCE Report Status: The analyzed value for above measured parameter is within the limits.

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

-: EN

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No:MSVAL/2023/954

1. Name of the Industry

Report Issued Date: 01.02.2023

: M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

: Coke Oven Battery - Passes Through WHRB-1

: MSV Analytical Laboratories, Bellary.

: Sample collected with VSS – 1

: 28.01.2023

: 1140

: 30.01.2023

: 01.02.2023

2. Stack ID

3. Sample Collected By

4. Particulars of Sample Collected

5. Date of Sample Receipt

6. Sample Code

7. Analysis Starting Date8. Analysis Completion Date

9. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	28.01.2023
Fuel Used	YUA
Stack Temperature (°C)	136
Velocity (m/s)	6.62
Height (m)	60 mtrs AGL
Diameter (m)	4.6
Cross sectional area (m²)	16.61
Flow/Discharge Rate of Gas Nm ³ /Hr	275061.6

RESILTS

KESULIS				
Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) – 1985	mg/Nm³	23	50
Sulphur dioxide	IS-11255(Part2) – 1985	mg/Nm³	22.2	800
Nitrogen dioxide	IS-11255(Part7) – 2005	mg/Nm³	56.6	500
Carbon Monoxide as(CO)	IS 13270	%	0.26	Max 1%
Oxygen as O2 Instrument Method		%	5.4	

As per GSR 277 (E) Standards.

INFERENCE Report Status :- The analyzed value for above measured parameter is within the limits.

Analysed by

Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory



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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMMISSION

Test Report No: MSVAL/2023/955

Name of the Industry

Stack ID 2.

Sample Collected By 3.

4. **Particulars of Sample Collected**

5. **Date of Sample Receipt**

Sample Code 6.

Analysis Starting Date 7. **Analysis Completion Date** 8.

Sample Tested as Received

Report Issued Date: 01.02.2023

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.

Coke Oven Battery - Passes Through WHRB-2

MSV Analytical Laboratories, Bellary. Sample collected with VSS - 1

28.01.2023

1141

30.01.2023 01.02.2023

~ A	 	AILS
	30 1/2	
	2-013	

Date of Monitoring	28.01.2023
Fuel Used	700-
Stack Temperature (°C)	150
Velocity (m/s)	7.12
Height (m)	60 mtrs AGL
Diameter (m)	4.6
Cross sectional area (m²)	16.61
Flow/Discharge Rate of Gas Nm³/Hr	425747.52

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) – 1985	mg/Nm³	21	50
Sulphur dioxide IS-11255(Part2) – mg/Nm ³ 30.6		30.6	800	
Nitrogen dioxide IS-11255(Part7) - 2005		mg/Nm³	52.2	500
Carbon Monoxide IS 13270		%	0.26	Max 1%
Oxygen as O2 Instrument Method % 5.1		5.1		

	As per GSR 277 (E) Standards.
INFERENCE	Report Status :- The analyzed value for above measured parameter is
	within the limits.

Analysed by

REPORT:

Authorized Signatory

B.Chinna Lingana Gouda Chief executive of the laboratory

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/457

Report Issued Date: 23.01.2023

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	1	MSV Analytical Laboratories, Bellary.
3.	Name of the Location	:	Near ARC Furnace
4.	Particulars of the sample collected	:	Sample collected with High Volume Sampler
5.	Date of Sample Receipt		14.01.2023
6.	Sample Code		465
7.	Analysis Starting Date		15.01.2023
8.	Analysis Completion Date	:	16.01.2023
9.	Sample Tested as Received	1052	

S.No	Parameter	-Parameter Protocols		Shift wise results			Result in Avg.	Standards Max Limit
	10		1	2	3		m Av6.	GSR277 (E)
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	780	730	768	μg / m³	759.3	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	15.6	13.3	12.2	μg / m³	13.7	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.8	17.4	14.4	μg / m³	16.9	120
4	Lead as Pb	IS-5182 (Part22) – 2004	0.048	0.046	0.039	μg / m³	0.044	2
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	540.6	532.2	510.8	μg / m³	527.9	5000

INFERENCE	Standards as per GSR277 (E)
	Report Status: - The analyzed values for above measured parameter are within the limits.

Verified by

Authorized Signatory

B.ChinnaLingana Gouda Chief executive of the Laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No · MSVAI /2023 /458

Report Issued Date : 23 01 2023

hief executive of the Laboratory

1 63	t Report No. MSVAL/2023/430		Report Issued Date: 25.01.2025
1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	:	MSV Analytical Laboratories, Bellary.
3.	Name of the Location		Near Power Plant
4.	Particulars of the sample collected		Sample collected with High Volume Sampler
5.	Date of Sample Receipt		14.01.2023
6.	Sample Code	:	464
7.	Analysis Starting Date	. :	15.01.2023
8.	Analysis Completion Date		16.01.2023
9.	Sample Tested as Received	1	B. ASS. PT

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit
	2.1	201	1	2	3		m Avg.	GSR277 (E)
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	580.3	573.3	568.3	μg / m³	574.0	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	10.9	11.1	10.6	μg / m³	10.9	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.6	17.4	13.8	μg / m³	15.9	120
4	Lead as Pb	IS-5182 (Part22) – 2004	0.042	0.038	0.040	μg / m³	0.040	2
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	524.4	506.8	521.1	μg / m³	517.4	5000

INFERENCE	Standards as per GSR277 (E)
	Report Status: - The analyzed values for above measured parameter are within the limits.

Verified by

Note: 1. The results listed only to the tested samples & applicable parameters,

2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/544

Report Issued Date: 23.01.2023

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	:	MSV Analytical Laboratories, Bellary.
3.	Name of the Location	:	Near Coal Shed Area
4.	Particulars of the sample collected	:	Sample collected with High Volume Sampler
5.	Date of Sample Receipt	:	16.01.2023
6.	Sample Code	:	595
7.	Analysis Starting Date		17.01.2023
8.	Analysis Completion Date		18.01.2023
9.	Sample Tested as Received		

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit	
	1959	1		2	3	t-	m Avg.	GSR277 (E)	
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	860.4	853.5	848.5	μg / m³	854.1	3000	
2	Sulphur Dioxide as SO ₂	CPCB Procedure	13.3	13.4	11.1	μg / m³	12.6	150	
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.6	18.8	16.6	μg / m³	17.3	120	
4	Lead as Pb	IS-5182 (Part22) – 2004	0.052	0.054	0.051	μg / m³	0.052	2	
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	542.2	532.2	518.9	μg / m³	531.1	5000	
6	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	μg / m³	<0.01	2	

INFERENCE Standards as per GSR277 (E) Report Status: - The analyzed values for above measured parameter are within the limits.	INFERENCE	Standards as per GSR277 (E) Report Status: - The analyzed values for above measured parameter are within the limits.
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Verified by

B.ChinnaLingana Gouda

Chief executive of the Laboratory

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/545

Report Issued Date: 23.01.2023

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	:	MSV Analytical Laboratories, Bellary.
3.	Name of the Location	:	Near Coke Oven Plant
4.	Particulars of the sample collected	:	Sample collected with High Volume Sampler
5.	Date of Sample Receipt	:	16.01.2023
6.	Sample Code		593
7.	Analysis Starting Date	4	17.01.2023
8.	Analysis Completion Date		18.01.2023
9.	Sample Tested as Received	-	

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit
			1	2	3			GSR277 (E)
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	665.5	658.5	653.8	μg / m³	659.3	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	14.4	11.1	10.8	μg / m³	12.1	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.3	16.2	12.4	μg / m³	15.3	120
4	Lead as Pb	IS-5182 (Part22) – 2004	0.046	0.048	0.038	μg / m³	0.044	2
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	594.4	524.4	515.8	μg / m³	544.9	5000
6	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	μg / m³	<0.01	2

INFERENCE	Standards as per GSR277 (E)
	Report Status: - The analyzed values for above measured parameter are within the limits.

Verified by

SALAR PROPERTY.

Authorized Signatory

Authorized Signatory

B.ChinnaLingana Gouda

Chief executive of the Laboratory

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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)
Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (0) : 08392-255169,

E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/459

Report Issued Date: 23.01.2023

1.	Name of the Industry		M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	:	MSV Analytical Laboratories, Bellary.
3.	Name of the Location	:	Near Main Gate
4.	Particulars of the sample collected	:	Sample collected with High Volume Sampler
5.	Date of Sample Receipt		14.01.2023
6.	Sample Code		463
7.	Analysis Starting Date	194	15.01.2023
8.	Analysis Completion Date		16.01.2023
9.	Sample Tested as Received		107

S.No	Parameter Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit
			1	2	3			GSR277 (E)
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	369.8	362.8	357.8	μg / m³	363.5	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	7.2	7.6	6.8	μg / m³	7.2	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	8.8	9.6	9.2	μg / m³	9.2	120
4	Lead as Pb	IS-5182 (Part22) – 2004	0.032	0.027	0.020	μg / m³	0.026	2
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	324.4	315.5	298.9	μg / m³	312.9	5000

INFERENCE	Standards as per GSR277 (E)
	Report Status: - The analyzed values for above measured parameter are within the limits.

Verified by

B.ChinnaLingana Gouda Chief executive of the Laboratory

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E-mail: msvalbellary2018@gmail.com, labmsv@gmail.com Website: www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No: MSVAL/2023/546

Report Issued Date: 23.01.2023

1.	Name of the Industry		M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2.	Sample Collected By	:	MSV Analytical Laboratories, Bellary.
3.	Name of the Location		Near iron Ore Beneficiation Plant
4.	Particulars of the sample collected	: .	Sample collected with High Volume Sampler
5.	Date of Sample Receipt	:	16.01.2023
6.	Sample Code	:	594
7.	Analysis Starting Date		17.01.2023
8.	Analysis Completion Date		18.01.2023
9.	Sample Tested as Received	POATER	The said of the sa

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit
		V	1	2	3		m Avg.	GSR277 (E)
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	774.8	767.8	762.8	μg / m³	768.5	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	15.5	14.2	11.2	μg / m³	13.6	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.8	17.1	14.4	μg / m³	16.8	120
4	Lead as Pb	IS-5182 (Part22) – 2004	0.058	0.050	0.050	μg / m³	0.053	2
5	Carbon Monoxide as	MSVAL/SOP/A/ 007	532.2	516.5	518.4	μg / m³	522.4	5000

INFERENCE	Standards as per GSR277 (E)
-	Report Status: - The analyzed values for above measured parameter are within the limits.

Verified by

-: END OF RE

Authorized Signatory

B.ChinnaLingana Gouda

Chief executive of the Laboratory

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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/17/04

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No: TC720723000000654F

Report Issued Date: 15.01.2023

1. Name of the industry

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk,

Bellary District, Karnataka.

2. Sample Collected By

MSV Analytical Laboratories, Bellary

3. Date of Monitoring

10.01.2023

4. Report Date5. Particulars of Sample

15.01.2023 Noise meter

IS 9989

Collected

.....

6. Method Adopted

			Day Time Results					
S.No	Sample Location	Time Frequency	Maximum in dB(A)	Minimum in dB(A) Leq	Avg. in dB(A) Leq	Permissible limits in dB(A) Leq		
1	Smiore Colony	09.00 am to 10.00 am	52.2	45.5	48.9			
2	Kallahalli Village	11.10 am to 12.10pm	54.6	50.1	52.4			
3	Vysanakere Village	01.30 pm to 02.30pm	50.1	47.6	48.9			
4	Gunda Village	02.00 pm to 3.00 pm	53.4	49.2	51.3	55		
5	Hanumanahalli (V)	03.10 pm to 04.10pm	53.8	49.2	51.5	35		
6	Venkatagiri Village	04.30 pm to 05.30pm	50.9	47.4	49.2			
7	Ramgad Village	05.30 pm to 05.30pm	51.3	47.3	49.3			
8	Rajapur Village	06.30 pm to 06.30pm	52.7	48.5	50.6			

INFERENCE As per CPCB Standards, Report Status :- In the all locations Noise level is within the limits	
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Analysed by

-: END OF REPORT:

Authorized Signatory
B.Chinna Lingana Gouda

Chief executive of the laboratory

Note: 1. The results listed only to the tested samples & applicable parameters,

^{2.} Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.

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MSV Analytical Laboratories

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Email: labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID: www.msvalbellary.com



MSVAL/A/F/17/04

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No: TC720723000000655F

Report Issued Date: 15.01.2023

Name of the industry

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk,

Bellary District, Karnataka.

2. Sample Collected By MSV Analytical Laboratories, Bellary 10.01.2023

3. Date of Monitoring

Report Date 4.

15.01.2023

Noise meter

Particulars of Sample Collected Method Adopted 6.

IS 9989

			Nighttime Results						
S.No	Sample Location	Time Frequency	Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	Permissible limits in dB(A) Leq			
1	Smiore Colony	10.00 pm to 10.15 pm	42.6	36.6	39.6	Б			
2	Kallahalli Village	10.30 pm to 10.45 pm	43.3	32.2	37.8				
3	Vysanakere Village	10.55 pm to 11.10 pm	40.6	33.3	37.0	197			
4	Gunda Village	11.20 pm to 11.35 pm	42.2	38.6	40.4	45			
5	Hanumanahalli (V)	11.50 pm to 12.05 am	41.1	33.3	37.2	45			
6	Venkatagiri Village	12.30 am to 12.45 am	43.6	32.2	37.9				
7	Ramgad Village	01.00 am to 01.15 am	42.8	35.5	39.2				
8	Rajapur Village	02.00 am to	43.8	32.6	38.2	1			

INFERENCE	As per CPCB Standards, Report Status :- In the all locations Noise level is within the limits

Analysed by

Authorized Signatory

B.Chinna Lingana Gouda

Chief executive of the laboratory

-: END

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MSVAL/A/F/17/04

Work ZoneNOISE LEVEL MONITORING REPORT

Test Report No: TC720723000000656F

Report Issued Date: 15.01.2023

Name of the industry 1.

M/s. The Sandur Manganese & Iron Ores Ltd.

(Metal & Ferro Alloys Plant)

Vyasanakere, Hanumanahalli Village, Hospet Taluk,

Bellary District, Karnataka.

Sample Collected By 2.

MSV Analytical Laboratories, Bellary

Date of Monitoring 3.

11.01.2023

4. **Report Date** 12.01.2023

Noise meter

5. **Particulars of Sample Collected**

6. Method Adopted IS 9989

			Work Zone Noise Monitoring					
S.No	Sample Location	Time Frequency	Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	Permissible limits in dB(A) Leq		
1	Near Coal Crusher Area	09.00 am to 10.00 am	67.4	64.1	65.8			
2	Coke Cutting Area	10.30 am to 11.30 am	71.4	67.3	69.4			
3	Coke Screening Area	01.30 pm to 02.30pm	69.9	65.5	67.7			
4	WHRB-1 Area	03.00 pm to 4.00 pm	66.3	64.9	65.6			
5	ARC Furnace Area	04.10 pm to 05.10pm	72.7	68.2	70.5	85		
6	Power Plante Area	05.30 pm to 06.30pm	63.0	60.7	61.9			
7	Coal Shed Area	07.00 pm to 08.00pm	65.3	61.8	63.6			
8	Coke Oven Area	08.30 pm to 09.30pm	64.2	62.6	63.4			
9	DG Set Area	09.30 pm to 10.30pm	66.7	63.3	65.0			

INFERENCE

As per CPCB Standards,

Report Status:- In the all locations Noise level is within the limits

Analysed by

Chief executive of the laboratory

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