

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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Certified by: ISO14001: 2015, ISO 22000:2018, ISO 45001:2018, ISO 9001:2015

&

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

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TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000185F

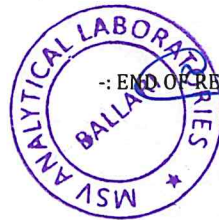
Issue Date: 06.01.2023

- 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** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 221
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

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 REPORT:--

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

- Note :
- 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.
 - 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.
 - Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
 - 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/2023/44

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** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 44
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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





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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000186F

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 224
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

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. Chinnna Lingana Gouda
Chief executive of the laboratory

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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvallbellary.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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 45
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



END OF REPORT:-



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TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000187F

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 223
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

B. Chinnna 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.msvallbellary.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)
Vysanakere, 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 : 03.01.2023
6. Date of Sample Receipt : 04.01.2023
7. Sample Code : 46
8. Analysis Starting Date : 04.01.2023
9. Analysis Completion Date : 06.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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





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TC-7207

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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 222
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

- 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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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

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/47

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 03.01.2023
- Date of Sample Receipt** : 04.01.2023
- Sample Code** : 47
- Analysis Starting Date** : 04.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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 REPORT:-

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory



MSV Analytical Laboratories

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Email : labmsv@gmail.com, msvbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000380F

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** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 06.01.2023
- Sample Code** : 480
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 10.01.2023
- Sample Tested as Received**

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

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

:- END OF REPORT :-

- 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 : 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

- 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.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 215
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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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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: TC72072300000381F

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 483
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/216

Issue Date: 06.01.2023

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, 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 : 06.01.2023
6. Date of Sample Receipt : 07.01.2023
7. Sample Code : 216
8. Analysis Starting Date : 07.01.2023
9. Analysis Completion Date : 06.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



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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: TC72072300000382F

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 482
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	52.1	51.4	50.6	µg / m ³	51.37	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	14.2	13.6	12.2	µg / m ³	13.33	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.0	6.1	5.3	µg / m ³	6.13	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	13.0	12.4	11.3	µg / m ³	12.23	80
5	Ozone as O ₃	IS 5182(part-9)	0.25	0.24	0.23	µg / m ³	0.24	100
6	Lead	IS-5182(Part22)	0.026	0.026	0.026	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.18	0.17	0.16	mg / m ³	0.17	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.22	1.22	1.22	ng / m ³	1.22	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

- 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 : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvallbellary.com

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** : 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.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 217
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chintha Lingana Gouda
Chief executive of the laboratory

END OF REPORT



MSV Analytical Laboratories

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TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720723000000383F

Issue Date: 06.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 481
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

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

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

- 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 : 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

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 06.01.2023
- Date of Sample Receipt** : 07.01.2023
- Sample Code** : 218
- Analysis Starting Date** : 07.01.2023
- Analysis Completion Date** : 06.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chinnna 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 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 invoiced 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: TC72072300000471F

Issue Date: 12.01.2023

- 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** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 583
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

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

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

- 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 : 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

Issue Date: 12.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 254
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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





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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: TC72072300000472F

Issue Date: 12.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 586
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

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

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 REPORT:-

Authorized Signatory

B. Chinnna Lingana Gouda
Chief executive of the laboratory

- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months 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.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/255

Issue Date: 12.01.2023

- 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** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 255
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

E.Chinna Lingana Gouda
Chief executive of the laboratory



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/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000473F

Issue Date: 12.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 585
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

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

- Note :
- 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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/256

Issue Date: 12.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 256
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000474F

Issue Date: 12.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasankere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 584
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

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

- 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 AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/257

Issue Date: 12.01.2023

- 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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 09.01.2023
- Date of Sample Receipt** : 10.01.2023
- Sample Code** : 257
- Analysis Starting Date** : 10.01.2023
- Analysis Completion Date** : 12.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



MSV Analytical Laboratories

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TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000638F

Issue Date: 14.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 835
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

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

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

- 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 : 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/2023/322

Issue Date: 14.01.2023

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, 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 : 11.01.2023
6. Date of Sample Receipt : 12.01.2023
7. Sample Code : 322
8. Analysis Starting Date : 12.01.2023
9. Analysis Completion Date : 14.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chinnna Lingana Gouda
Chief executive of the laboratory



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

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: TC72072300000639F

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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 838
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

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

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

- Note: 1. The results listed only to the tested samples & applicable parameters,
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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/2023/323

Issue Date: 14.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 323
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



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/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000640F

Issue Date: 14.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 837
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	50.8	51.6	49.5	µg / m ³	50.63	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	16.1	17.8	15.4	µg / m ³	16.43	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.45	7.65	5.45	µg / m ³	6.85	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	12.45	13.25	11.15	µg / m ³	12.28	80
5	Ozone as O ₃	IS 5182(part-9)	3.9	3.1	2.9	µg / m ³	3.30	100
6	Lead	IS-5182(Part22)	0.84	0.083	0.082	µg / m ³	0.335	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.23	0.21	mg / m ³	0.22	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.14	1.13	1.12	ng / m ³	1.13	20

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

:- END OF REPORT :-

- 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 : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/324

Issue Date: 14.01.2023

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, 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 : 11.01.2023
6. Date of Sample Receipt : 12.01.2023
7. Sample Code : 324
8. Analysis Starting Date : 12.01.2023
9. Analysis Completion Date : 14.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



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/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072300000641F

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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 836
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

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

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

- Note : 1. The results listed only to the tested samples & applicable parameters,
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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/2023/325

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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 11.01.2023
- Date of Sample Receipt** : 12.01.2023
- Sample Code** : 325
- Analysis Starting Date** : 12.01.2023
- Analysis Completion Date** : 14.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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



MSV Analytical Laboratories

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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)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00029
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

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

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

- 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

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)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00029
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	6

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

- Note: 1. The results listed only to the tested samples & applicable parameters,
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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, (O) : 08392-255169,

E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00032
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

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

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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 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/2023/00017

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.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00032
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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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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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00030
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

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

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00030
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chinnna Lingana Gouda
Chief executive of the laboratory

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00019

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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00031
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00019

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** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 17.01.2023
- Date of Sample Receipt** : 18.01.2023
- Sample Code** : 00031
- Analysis Starting Date** : 18.01.2023
- Analysis Completion Date** : 20.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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

6

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)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00196
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

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

Page:1

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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)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00196
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

:- END OF REPORT :-

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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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, (O) : 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

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00199
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	55.6	56.7	54.2	µg / m ³	55.50	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	18.8	19.9	17.6	µg / m ³	18.77	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	10.06	10.26	9.19	µg / m ³	9.84	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	17.57	19.26	9.19	µg / m ³	15.34	80
5	Ozone as O ₃	IS 5182(part-9)	10.7	9.4	8.4	µg / m ³	9.50	100
6	Lead	IS-5182(Part22)	0.026	0.030	0.020	µg / m ³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.32	0.24	mg / m ³	0.27	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.28	1.24	1.20	ng / m ³	1.24	20

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 REPORT:-

Authorized Signatory

B. Chihna Lingana Gouda
Chief executive of the laboratory

Page:1

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/150

Issue Date: 23.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00199
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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E-mail : msvabellary2018@gmail.com, labmsv@gmail.com Website : www.msvabellary.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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00198
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

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

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

Analysed by



Authorized Signatory

B. Chitna Lingana Gouda
Chief executive of the laboratory

Page:1

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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

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00198
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/148

Issue Date: 23.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00197
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

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

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

Analysed by



Authorized Signatory

B. Chinnna Lingana Gouda
Chief executive of the laboratory

Page:1

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/148

Issue Date: 23.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- 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
- Date of Sample Receipt** : 20.01.2023
- Sample Code** : 00197
- Analysis Starting Date** : 20.01.2023
- Analysis Completion Date** : 23.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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7

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)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00683
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	58	58.6	59	µg / m ³	58.5	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	21.1	21.5	22	µg / m ³	21.5	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	9.45	9.8	10.5	µg / m ³	9.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	20	20.6	21.2	µg / m ³	20.6	80
5	Ozone as O ₃	IS 5182(part-9)	<0.01	<0.01	<0.01	µg / m ³	<0.01	100
6	Lead	IS-5182(Part22)	0.080	0.081	0.082	µg / m ³	0.081	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.30	0.26	mg / m ³	0.28	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.20	1.21	1.22	ng / m ³	1.21	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

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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/2023/00551

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** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00683
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

- 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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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, (O) : 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

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00686
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	51.7	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	17.2	17.6	18.4	µg / m ³	17.7	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	7.75	8.15	8.75	µg / m ³	8.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6)	14.6	15.2	15.8	µg / m ³	15.2	80
5	Ozone as O ₃	IS 5182(part-9)	8.2	8.4	8.0	µg / m ³	8.2	100
6	Lead	IS-5182(Part22)	0.030	0.031	0.032	µg / m ³	0.031	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.24	0.20	mg / m ³	0.22	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.12	1.13	1.14	ng / m ³	1.13	20

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

Analysed by



Authorized Signatory

B. Chinnna 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/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00552

Issue Date: 28.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00686
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	6

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

- Note :
- The results listed only to the tested samples & applicable parameters,
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00684
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

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

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00684
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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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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.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00685
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

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

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

Analysed by



Authorized Signatory

B. Chinnna 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/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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 24.01.2023
- Date of Sample Receipt** : 25.01.2023
- Sample Code** : 00685
- Analysis Starting Date** : 25.01.2023
- Analysis Completion Date** : 28.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chinnna Lingana Gouda
Chief executive of the laboratory

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8

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, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 28.01.2023
- Date of Sample Receipt** : 29.01.2023
- Sample Code** : 1159
- Analysis Starting Date** : 29.01.2023
- Analysis Completion Date** : 31.01.2023
- Sample Tested as Received**

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

- 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, (O) : 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

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
5. Date of Sampling : 28.01.2023
6. Date of Sample Receipt : 29.01.2023
7. Sample Code : 1159
8. Analysis Starting Date : 29.01.2023
9. Analysis Completion Date : 31.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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

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(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, (O) : 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

- 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** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 28.01.2023
- Date of Sample Receipt** : 29.01.2023
- Sample Code** : 1160
- Analysis Starting Date** : 29.01.2023
- Analysis Completion Date** : 31.01.2023
- Sample Tested as Received**

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

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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)
Vyanakere, 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
6. Date of Sample Receipt : 29.01.2023
7. Sample Code : 1160
8. Analysis Starting Date : 29.01.2023
9. Analysis Completion Date : 31.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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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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

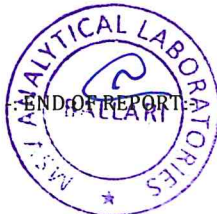
Issue Date: 31.01.2023

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 28.01.2023
- Date of Sample Receipt** : 29.01.2023
- Sample Code** : 1161
- Analysis Starting Date** : 29.01.2023
- Analysis Completion Date** : 31.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀	IS-5182(Part-23)	59	59.6	60.2	µg / m ³	59.60	100
2	Particulate Matter or PM _{2.5}	LAB SOP MSVAL/SOP/A/005	22.8	23.4	24	µg / m ³	23.40	60
3	Sulphur Dioxide as SO ₂	IS-5182(Part-2)	8.45	9.1	9.45	µg / m ³	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 / m ³	8.60	100
6	Lead	IS-5182(Part22)	0.026	0.025	0.024	µg / m ³	0.025	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.26	0.22	mg / m ³	0.24	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.37	1.36	1.35	ng / m ³	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

B. Channa Lingana Gouda
Chief executive of the laboratory

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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)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 28.01.2023
- Date of Sample Receipt** : 29.01.2023
- Sample Code** : 1161
- Analysis Starting Date** : 29.01.2023
- Analysis Completion Date** : 31.01.2023
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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.Chinnappa Lingana Gouda
Chief executive of the laboratory

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2023/00976

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.
- Name of the location** : Gunda Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sampling** : 28.01.2023
- Date of Sample Receipt** : 29.01.2023
- Sample Code** : 1162
- Analysis Starting Date** : 29.01.2023
- Analysis Completion Date** : 31.01.2023
- Sample Tested as Received**

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

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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)
Vyanakere, 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 : 28.01.2023
6. Date of Sample Receipt : 29.01.2023
7. Sample Code : 1162
8. Analysis Starting Date : 29.01.2023
9. Analysis Completion Date : 31.01.2023
10. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			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 / m ³	<0.01	5
11	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<0.01	1
12	Arsenic as As	CPCB Procedure	<0.01	<0.01	<0.01	ng / m ³	<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

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.com

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No:MSVAL/2023/000599

Report Issued Date : 28.01.2023

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke Screening & Store
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 24.01.2023
6. Sample Code : 732
7. Analysis Starting Date : 25.01.2023
8. Analysis Completion Date : 28.01.2023
9. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	24.01.2023
Fuel Used	---
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

INFERENCE	As per GSR 277 (E) 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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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

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 : Coke Cutter
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 24.01.2023
6. Sample Code : 733
7. Analysis Starting Date : 25.01.2023
8. Analysis Completion Date : 28.01.2023
9. Sample Tested as Received

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 (m ²)	0.38465

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	26	50

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

Test Report No:MSVAL/2023/000601

Report Issued Date : 25.01.2023

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coal Crushing Area
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 24.01.2023
6. Sample Code : 734
7. Analysis Starting Date : 25.01.2023
8. Analysis Completion Date : 28.01.2023
9. Sample Tested as Received

GENERAL DETAILS

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/Nm ³	24	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

MSV ANALYTICAL LABORATORIES
BELLARY
KARNATAKA
-: END OF REPORT



- Note :
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msvalbellary@gmail.com Web ID : www.msvalbellary.com



TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC72072300000735F

Report Issued Date: 15.01.2023

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Ferro Alloy Arc Furnace 5
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 12.01.2023
6. Sample Code : 980
7. Analysis Starting Date : 13.01.2023
8. Analysis Completion Date : 15.01.2023
9. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	12.01.2023
Fuel Used	----
Stack Temperature (°C)	42
Velocity (m/s)	6.84
Height (m)	35 mtrs AGL
Diameter (m)	2.5
Cross sectional area (m ²)	4.90625
Flow/Discharge Rate of Gas Nm ³ /Hr	120811.5

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	33.3	150
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	21.1	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	46.4	500
Carbon Monoxide as(CO)	IS 13270	%	0.20	Max 1%
Oxygen as O ₂	Instrument Method	%	5.9	---

INFERENCE	As per GSR 277 (E) 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

END OF REPORT:-

- Note: 1. The results listed only to the tested samples & applicable parameters,
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Email : labmsv@gmail.com, msvalbellary2018@gmail.com, msv.lab01@gmail.com Web ID : www.msvalbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC72072300000736F

Report Issued Date: 15.01.2023

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Ferro Alloy Arc Furnace 3
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 12.01.2023
6. Sample Code : 982
7. Analysis Starting Date : 13.01.2023
8. Analysis Completion Date : 15.01.2023
9. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	12.01.2023
Fuel Used	----
Stack Temperature (°C)	44
Velocity (m/s)	6.12
Height (m)	35 mtrs AGL
Diameter (m)	2.5
Cross sectional area (m ²)	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) - 1985	mg/Nm ³	21.8	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	42.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.26	Max 1%
Oxygen as O ₂	Instrument Method	%	5.8	---

INFERENCE	As per GSR 277 (E) 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



:- END OF REPORT

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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 EMISSION

Test Report No:MSVAL/2023/954

Report Issued Date : 01.02.2023

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke Oven Battery - Passes Through WHRB-1
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 28.01.2023
6. Sample Code : 1140
7. Analysis Starting Date : 30.01.2023
8. Analysis Completion Date : 01.02.2023
9. Sample Tested as Received

GENERAL DETAILS

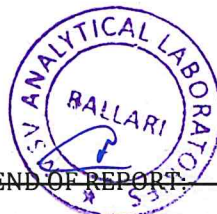
Date of Monitoring	28.01.2023
Fuel Used	----
Stack Temperature (°C)	136
Velocity (m/s)	6.62
Height (m)	60 mtrs AGL
Diameter (m)	4.6
Cross sectional area (m ²)	16.61
Flow/Discharge Rate of Gas Nm ³ /Hr	275061.6

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	23	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	22.2	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	56.6	500
Carbon Monoxide as(CO)	IS 13270	%	0.26	Max 1%
Oxygen as O ₂	Instrument Method	%	5.4	---

INFERENCE	As per GSR 277 (E) 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

: END OF REPORT :

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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 EMISSION

Test Report No: MSVAL/2023/955

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke Oven Battery - Passes Through WHRB-2
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 28.01.2023
6. Sample Code : 1141
7. Analysis Starting Date : 30.01.2023
8. Analysis Completion Date : 01.02.2023
9. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	28.01.2023
Fuel Used	----
Stack Temperature (°C)	150
Velocity (m/s)	7.12
Height (m)	60 mtrs AGL
Diameter (m)	4.6
Cross sectional area (m ²)	16.61
Flow/Discharge Rate of Gas Nm ³ /Hr	425747.52

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	21	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	30.6	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	52.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.26	Max 1%
Oxygen as O ₂	Instrument Method	%	5.1	---

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



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

FL

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	:	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	:	

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

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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2023/458

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 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	:	

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

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

Verified by



:- END OF REPORT :-

Authorized Signatory

B.ChinnaLingana Gouda

Chief executive of the Laboratory

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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 GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	860.4	853.5	848.5	µg / m ³	854.1	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	13.3	13.4	11.1	µg / m ³	12.6	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.6	18.8	16.6	µg / m ³	17.3	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.052	0.054	0.051	µg / m ³	0.052	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	542.2	532.2	518.9	µg / m ³	531.1	5000
6	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	µg / m ³	<0.01	2

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

Verified by

Authorized Signatory

B.Chhanna Lingana Gouda

Chief executive of the Laboratory



:- END OF REPORT:-

- Note : 1. The results listed only to the tested samples & applicable parameters,
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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	:	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 GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	665.5	658.5	653.8	µg / m ³	659.3	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	14.4	11.1	10.8	µg / m ³	12.1	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.3	16.2	12.4	µg / m ³	15.3	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.046	0.048	0.038	µg / m ³	0.044	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	594.4	524.4	515.8	µg / m ³	544.9	5000
6	Benzo (α) Pyrene (BaP)	CPCB Procedure	<0.01	<0.01	<0.01	µg / m ³	<0.01	2

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

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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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	:	15.01.2023
8.	Analysis Completion Date	:	16.01.2023
9.	Sample Tested as Received	:	

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

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



Authorized Signatory

B.ChinnaLingana Gouda

Chief executive of the Laboratory

- Note : 1. The results listed only to the tested samples & applicable parameters,
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com Website : www.msvbellary.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	:	

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

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



Authorized Signatory

B.Chinnalingana Gouda
Chief executive of the Laboratory

- Note : 1. The results listed only to the tested samples & applicable parameters,
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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 : TC72072300000654F

Report Issued Date : 15.01.2023

1. Name of the industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
2. Sample Collected By : MSV Analytical Laboratories, Bellary
3. Date of Monitoring : 10.01.2023
4. Report Date : 15.01.2023
5. Particulars of Sample Collected : Noise meter
6. Method Adopted : IS 9989

S.No	Sample Location	Time Frequency	Day Time Results			Permissible limits in dB(A) Leq
			Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	
1	Smiore Colony	09.00 am to 10.00 am	52.2	45.5	48.9	55
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	
5	Hanumanahalli (V)	03.10 pm to 04.10pm	53.8	49.2	51.5	
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

Authorized Signatory
B.Chinna Lingana Gouda

Chief executive of the laboratory



- Note : 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/17/04

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No : TC72072300000655F

Report Issued Date : 15.01.2023

- Name of the industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Date of Monitoring** : 10.01.2023
- Report Date** : 15.01.2023
- Particulars of Sample Collected** : Noise meter
- Method Adopted** : IS 9989

S.No	Sample Location	Time Frequency	Nighttime Results			Permissible limits in dB(A) Leq
			Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	
1	Smiore Colony	10.00 pm to 10.15 pm	42.6	36.6	39.6	45
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	
4	Gunda Village	11.20 pm to 11.35 pm	42.2	38.6	40.4	
5	Hanumanahalli (V)	11.50 pm to 12.05 am	41.1	33.3	37.2	
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 02.15 am	43.8	32.6	38.2	

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 OF REPORT

- Note: 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/17/04

Work Zone NOISE LEVEL MONITORING REPORT

Test Report No : TC720723000000656F

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.
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Date of Monitoring** : 11.01.2023
- Report Date** : 12.01.2023
- Particulars of Sample Collected** : Noise meter
- Method Adopted** : IS 9989

S.No	Sample Location	Time Frequency	Work Zone Noise Monitoring			
			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	85
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	
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
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Analysed by



:- END OF REPORT :-

Authorized Signatory

B.Chinna Lingana Gouda

Chief executive of the laboratory

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