



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL
(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: TC720722000020530F

Report Issued Date: 05.11.2022

- 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** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 01.11.2022
- Analysis Starting Date** : 02.11.2022
- Analysis Completion Date** : 05.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	57.4	58.2	56.3	µg / m ³	57.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	29.2	30.1	28.7	µg / m ³	29.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.3	11.2	9.3	µg / m ³	10.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.4	17.1	15.3	µg / m ³	16.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	9.1	9.0	µg / m ³	9.1	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.031	0.030	µg / m ³	0.00	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.27	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	1.28	1.27	1.26	ng / m ³	1.33	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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10615

Report Issued Date: 05.11.2022

- 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 Sample Receipt : 01.11.2022
- Analysis Starting Date : 02.11.2022
- Analysis Completion Date : 05.11.2022
- 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) - 2006	<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

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 sue 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: TC720722000020533F

Report Issued Date: 05.11.2022

- 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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 01.11.2022
- Analysis Starting Date** : 02.11.2022
- Analysis Completion Date** : 05.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	56.4	57.5	55.2	µg / m ³	56.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.7	19.6	17.4	µg / m ³	18.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.3	11.2	9.6	µg / m ³	10.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.9	18.1	15.4	µg / m ³	16.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.5	9.6	8.9	µg / m ³	9.7	100
6	Lead	IS-5182(Part22) - 2004	0.027	0.026	0.025	µg / m ³	0.00	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.33	0.31	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	1.21	1.20	1.19	ng / m ³	1.22	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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10618

Report Issued Date: 05.11.2022

- 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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 01.11.2022
- Analysis Starting Date** : 02.11.2022
- Analysis Completion Date** : 05.11.2022
- 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) - 2006	<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: TC720722000020532F

Report Issued Date: 05.11.2022

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 :
5. Date of Sample Receipt : 01.11.2022
6. Analysis Starting Date : 02.11.2022
7. Analysis Completion Date : 05.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	52.3	53.4	51.6	µg / m ³	52.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.8	17.2	15.9	µg / m ³	16.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.3	11.3	11.5	µg / m ³	11.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.5	15.8	15.7	µg / m ³	15.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.8	8.7	8.6	µg / m ³	8.7	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.023	0.022	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.27	mg / m ³	0.3	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	1.27	1.26	ng / m ³	1.33	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

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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/2022/10617

Report Issued Date: 05.11.2022

- 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 Sample Receipt** : 01.11.2022
- Analysis Starting Date** : 02.11.2022
- Analysis Completion Date** : 05.11.2022
- 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) - 2006	<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: TC720722000020531F

Report Issued Date: 05.11.2022

- 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 Sample Receipt** : 01.11.2022
- Analysis Starting Date** : 02.11.2022
- Analysis Completion Date** : 05.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.2	51.0	50.6	µg / m ³	52.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.1	19.2	18.1	µg / m ³	19.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.5	7.6	6.5	µg / m ³	7.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	77.2	85.2	15.1	µg / m ³	59.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.5	8.4	8.3	µg / m ³	8.4	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.037	0.036	µg / m ³	0.00	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.27	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	1.21	1.20	1.19	ng / m ³	1.22	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

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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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ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10616

Report Issued Date: 05.11.2022

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 : 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 Sample Receipt : 01.11.2022
6. Analysis Starting Date : 02.11.2022
7. Analysis Completion Date : 05.11.2022
8. 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) - 2006	<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: TC72072200020802F

Report Issued Date: 14.11.2022

- 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 Sample Receipt : 09.11.2022
- Analysis Starting Date : 10.11.2022
- Analysis Completion Date : 14.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	54.2	53.3	52.4	µg / m ³	53.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.4	18.6	17.4	µg / m ³	18.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.0	10.0	9.2	µg / m ³	10.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.8	13.2	12.1	µg / m ³	13.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.2	11.2	10.3	µg / m ³	11.2	100
6	Lead	IS-5182(Part22) - 2004	0.03	0.03	0.03	µg / m ³	0.00	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	12.2	11.2	10.2	mg / m ³	11.2	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	1.02	1.02	1.02	ng / m ³	1.0	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. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10909

Report Issued Date: 14.11.2022

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 : 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 Sample Receipt : 09.11.2022
6. Analysis Starting Date : 10.11.2022
7. Analysis Completion Date : 14.11.2022
8. 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) - 2006	<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

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

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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: TC720722000020805F

Report Issued Date: 14.11.2022

- 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 Sample Receipt : 09.11.2022
- Analysis Starting Date : 10.11.2022
- Analysis Completion Date : 14.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	48.2	47.3	46.3	µg / m ³	47.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.2	19.4	17.8	µg / m ³	19.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.1	9.3	10.3	µg / m ³	9.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.8	13.8	14.3	µg / m ³	14.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	8.2	8.1	µg / m ³	8.2	100
6	Lead	IS-5182(Part22) - 2004	0.21	0.21	0.21	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.25	0.24	0.23	mg / m ³	0.2	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	1.09	1.09	1.09	ng / m ³	1.1	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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10912

Report Issued Date: 14.11.2022

- 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 Sample Receipt : 09.11.2022
- Analysis Starting Date : 10.11.2022
- Analysis Completion Date : 14.11.2022
- 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) - 2006	<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



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL
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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000020804F

Report Issued Date: 14.11.2022

- 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 :
- Date of Sample Receipt : 09.11.2022
- Analysis Starting Date : 10.11.2022
- Analysis Completion Date : 14.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	60.2	59.4	58.6	µg / m ³	59.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	24.2	23.2	22.4	µg / m ³	23.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	14.8	14.0	13.0	µg / m ³	13.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.8	16.8	16.2	µg / m ³	16.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.4	9.2	9.0	µg / m ³	9.2	100
6	Lead	IS-5182(Part22) - 2004	0.34	0.34	0.34	µg / m ³	0.33	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.44	0.42	0.40	mg / m ³	0.44	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	1.30	1.30	1.30	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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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/2022/10911

Report Issued Date: 14.11.2022

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 Sample Receipt : 09.11.2022
6. Analysis Starting Date : 10.11.2022
7. Analysis Completion Date : 14.11.2022
8. 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) - 2006	<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 : 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: TC720722000020803F

Report Issued Date: 14.11.2022

- 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 Sample Receipt** : 09.11.2022
- Analysis Starting Date** : 10.11.2022
- Analysis Completion Date** : 14.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	54.3	53.2	51.0	µg / m ³	52.8	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.0	14.8	13.0	µg / m ³	14.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.3	5.9	5.2	µg / m ³	6.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	11.1	10.0	8.9	µg / m ³	10.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.7	7.6	7.4	µg / m ³	7.6	100
6	Lead	IS-5182(Part22) - 2004	0.017	0.017	0.017	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.21	0.20	0.18	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	1.22	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
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Analysed by



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

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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/2022/10910

Report Issued Date: 14.11.2022

- 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 Sample Receipt : 09.11.2022
- Analysis Starting Date : 10.11.2022
- Analysis Completion Date : 14.11.2022
- 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) - 2006	<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

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL
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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: TC720722000021030F

Report Issued Date: 17.11.2022

- 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 : Smiore Colony
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt : 12.11.2022
- Analysis Starting Date : 14.11.2022
- Analysis Completion Date : 17.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	60.4	59.2	58.4	µg / m ³	59.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.2	20.4	19.7	µg / m ³	20.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.9	11.6	10.0	µg / m ³	11.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.4	16.7	16.0	µg / m ³	17.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.6	11.4	11.2	µg / m ³	11.7	100
6	Lead	IS-5182(Part22) - 2004	11.9	11.6	10.0	µg / m ³	11.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.42	0.40	0.39	mg / m ³	0.4	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	1.30	1.31	1.35	ng / m ³	1.33	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/2022/20005

Report Issued Date: 17.11.2022

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 : 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 Sample Receipt : 12.11.2022
6. Analysis Starting Date : 14.11.2022
7. Analysis Completion Date : 17.11.2022
8. 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) - 2006	<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



MSV Analytical Laboratories

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

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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: TC720722000021033F

Report Issued Date: 17.11.2022

- 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 Sample Receipt : 12.11.2022
- Analysis Starting Date : 14.11.2022
- Analysis Completion Date : 17.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	56.2	55.3	54.2	µg / m ³	55.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.4	15.2	14.3	µg / m ³	15.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.6	7.2	6.3	µg / m ³	7.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.2	16.0	14.9	µg / m ³	16.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	9.4	9.0	µg / m ³	9.4	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.035	0.034	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.34	0.32	0.30	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	1.24	1.25	1.26	ng / m ³	1.33	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 destroyed after 1 month from the date of test certificate issue.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing
4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20007

Report Issued Date: 17.11.2022

- 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 Sample Receipt** : 12.11.2022
- Analysis Starting Date** : 14.11.2022
- Analysis Completion Date** : 17.11.2022
- 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) - 2006	<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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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: TC720722000021032F

Report Issued Date: 17.11.2022

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 :
5. Date of Sample Receipt : 12.11.2022
6. Analysis Starting Date : 14.11.2022
7. Analysis Completion Date : 17.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	62.5	61.2	60.0	µg / m ³	61.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.6	18.4	17.4	µg / m ³	18.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.0	10.	9.2	µg / m ³	10.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.4	16.8	16.0	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.2	12.0	11.8	µg / m ³	12.0	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.031	0.035	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.36	0.34	mg / m ³	0.44	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	1.3	1.32	1.36	ng / m ³	1.33	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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20008

Report Issued Date: 17.11.2022

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 Sample Receipt : 12.11.2022
6. Analysis Starting Date : 14.11.2022
7. Analysis Completion Date : 17.11.2022
8. 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) - 2006	<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 : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000021031F

Report Issued Date: 17.11.2022

- 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 Sample Receipt : 12.11.2022
- Analysis Starting Date : 14.11.2022
- Analysis Completion Date : 17.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	54.8	53.7	52.4	µg / m ³	53.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.7	14.6	13.2	µg / m ³	14.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.7	7.1	5.8	µg / m ³	7.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.2	16.0	15.4	µg / m ³	16.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.6	7.4	7.2	µg / m ³	7.7	100
6	Lead	IS-5182(Part22) - 2004	0.045	0.046	0.047	µg / m ³	0.44	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.30	0.28	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	1.35	1.34	1.38	ng / m ³	1.44	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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20006

Report Issued Date: 17.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, 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 Sample Receipt : 12.11.2022
6. Analysis Starting Date : 14.11.2022
7. Analysis Completion Date : 17.11.2022
8. 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) - 2006	<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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000021069F

Report Issued Date: 18.11.2022

- 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 Sample Receipt** : 14.11.2022
- Analysis Starting Date** : 15.11.2022
- Analysis Completion Date** : 18.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	57.1	57.4	58.2	µg / m ³	57.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.2	21.8	22.2	µg / m ³	21.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.25	11.55	12.25	µg / m ³	11.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	20.2	20.6	21.2	µg / m ³	20.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.8	12.2	12.4	µg / m ³	12.1	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.027	0.025	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.44	0.46	0.42	mg / m ³	0.44	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	1.09	1.08	1.07	ng / m ³	1.1	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

- ote: 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/2022/20075

Report Issued Date: 18.11.2022

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 : Sniore 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 Sample Receipt : 14.11.2022
6. Analysis Starting Date : 15.11.2022
7. Analysis Completion Date : 18.11.2022
8. 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) - 2006	<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

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

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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: TC720722000021072F

Report Issued Date: 18.11.2022

- 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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 14.11.2022
- Analysis Starting Date** : 15.11.2022
- Analysis Completion Date** : 18.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.2	50.2	56.8	µg / m ³	54.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.2	18.8	19.4	µg / m ³	18.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.8	8.45	9.05	µg / m ³	8.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.2	14.65	15.2	µg / m ³	14.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.4	7.6	7.2	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.018	0.019	0.016	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.32	0.28	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	1.23	1.24	1.22	ng / m ³	1.2	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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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20078

Report Issued Date: 18.11.2022

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 Sample Receipt : 14.11.2022
6. Analysis Starting Date : 15.11.2022
7. Analysis Completion Date : 18.11.2022
8. 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) - 2006	<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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000021071F

Report Issued Date: 18.11.2022

- 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 :
- Date of Sample Receipt : 14.11.2022
- Analysis Starting Date : 15.11.2022
- Analysis Completion Date : 18.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	53.5	54.2	54.8	µg / m ³	54.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.8	20.2	21.2	µg / m ³	20.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.55	11.95	12.55	µg / m ³	12.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.4	14.2	14.6	µg / m ³	14.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	8.5	8.7	µg / m ³	8.5	100
6	Lead	IS-5182(Part22) - 2004	0.022	0.024	0.020	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.20	0.22	0.18	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	1.18	1.19	1.16	ng / m ³	1.2	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

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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/2022/20077

Report Issued Date: 18.11.2022

- 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 Sample Receipt : 14.11.2022
- Analysis Starting Date : 15.11.2022
- Analysis Completion Date : 18.11.2022
- 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) - 2006	<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 : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000021070F

Report Issued Date: 18.11.2022

- 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 Sample Receipt : 14.11.2022
- Analysis Starting Date : 15.11.2022
- Analysis Completion Date : 18.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.1	55.5	56.2	µg / m ³	55.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.2	15.6	16.2	µg / m ³	15.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.45	8.8	9.45	µg / m ³	8.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	11.2	11.6	12.2	µg / m ³	11.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.8	9.4	9.2	µg / m ³	9.1	100
6	Lead	IS-5182(Part22) - 2004	0.012	0.013	0.011	µg / m ³	0.11	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	1.10	1.11	1.09	ng / m ³	1.1	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
B.Chinnna Lingana Gouda
Chief executive of the laboratory

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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/2022/20076

Report Issued Date: 18.11.2022

- 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 Sample Receipt** : 14.11.2022
- Analysis Starting Date** : 15.11.2022
- Analysis Completion Date** : 18.11.2022
- 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) - 2006	<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: TC72072200002282F

Report Issued Date: 21.11.2022

- 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 Sample Receipt** : 16.11.2022
- Analysis Starting Date** : 17.11.2022
- Analysis Completion Date** : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	71.2	73.4	70.6	µg / m ³	71.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.4	24.5	22.3	µg / m ³	23.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	19.1	19.9	18.4	µg / m ³	19.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	21.2	21.9	20.1	µg / m ³	21.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	0.41	0.42	0.40	µg / m ³	0.44	100
6	Lead	IS-5182(Part22) - 2004	0.035	0.034	0.033	µg / m ³	0.33	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.41	0.42	0.40	mg / m ³	0.44	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	1.2	1.1	1.0	ng / m ³	1.11	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

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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/2022/20206

Report Issued Date: 21.11.2022

- 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 Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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) - 2006	<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 : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022285F

Report Issued Date: 21.11.2022

- 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 Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.4	56.3	54.3	µg / m ³	55.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.8	17.9	15.7	µg / m ³	16.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.7	8.4	6.7	µg / m ³	7.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.3	17.5	15.1	µg / m ³	16.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.1	8.0	7.9	µg / m ³	8.0	100
6	Lead	IS-5182(Part22) - 2004	0.020	0.019	0.018	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.26	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	1.12	1.11	1.10	ng / m ³	1.11	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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20209

Report Issued Date: 21.11.2022

- 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 Sample Receipt** : 16.11.2022
- Analysis Starting Date** : 17.11.2022
- Analysis Completion Date** : 21.11.2022
- 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) - 2006	<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.Chinda Lingana Gouda
Chief executive of the laboratory



MSV Analytical Laboratories

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL
(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (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: TC720722000022284F

Report Issued Date: 21.11.2022

- 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 :
- Date of Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	51.4	52.6	50.2	µg / m ³	51.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.8	16.7	14.4	µg / m ³	15.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	5.6	8.7	6.7	µg / m ³	7.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	12.8	14.0	11.8	µg / m ³	12.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	6.2	6.1	6.0	µg / m ³	6.1	100
6	Lead	IS-5182(Part22) - 2004	0.013	0.012	0.01	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.21	0.23	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	1.16	1.15	1.14	ng / m ³	1.22	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 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 writir
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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20208

Report Issued Date: 21.11.2022

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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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) - 2006	<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

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

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E-mail : msvbellary2016@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022283F

Report Issued Date: 21.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, 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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	54.2	55.4	53.1	µg / m ³	54.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.2	19.6	17.4	µg / m ³	18.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.1	9.9	8.4	µg / m ³	9.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.3	17.5	14.7	µg / m ³	16.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.2	7.1	7.0	µg / m ³	7.1	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.023	0.022	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.17	0.19	0.16	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	1.16	1.15	1.14	ng / m ³	1.22	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/2022/20207

Report Issued Date: 21.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, 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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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) - 2006	<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.Channa 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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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: TC720722000022282F

Report Issued Date:

- 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 Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.6	56.7	54.5	µg / m ³	55.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	27.8	28.9	26.3	µg / m ³	27.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 20018.7	8.7	9.5	7.5	µg / m ³	8.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.9	18.2	11.1	µg / m ³	15.4	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.1	8.0	7.9	µg / m ³	8.0	100
6	Lead	IS-5182(Part22) - 2004	0.021	0.020	0.019	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.21	0.23	0.20	mg / m ³	0.44	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	1.19	1.18	ng / m ³	1.2	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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20207

Report Issued Date: 21.11.2022

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 : 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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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) - 2006	<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.Chinda Lingana Gouda

Chief executive of the laboratory



MSV Analytical Laboratories

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



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072200002285F

Report Issued Date: 21.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Kallahalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	58.6	59.7	57.4	µg / m ³	58.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.2	24.5	22.2	µg / m ³	23.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	15.4	16.6	14.2	µg / m ³	15.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.5	17.6	16.3	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	9.7	9.6	µg / m ³	9.7	100
6	Lead	IS-5182(Part22) - 2004	0.039	0.038	0.037	µg / m ³	0.33	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.33	0.30	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	1.23	1.22	1.21	ng / m ³	1.2	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/2022/20210

Report Issued Date: 21.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Kallahalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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) - 2006	<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.Chmna Lingana Gouda
Chief executive of the laboratory



MSV Analytical Laboratories

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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: TC720722000022284F

Report Issued Date: 21.11.2022

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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	60.8	59.6	58.6	µg / m ³	59.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.9	14.8	13.7	µg / m ³	14.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	13.3	12.5	11.6	µg / m ³	12.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	21.9	20.7	25.1	µg / m ³	22.6	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	9.7	9.6	µg / m ³	9.7	100
6	Lead	IS-5182(Part22) - 2004	0.027	0.026	0.025	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.35	0.34	0.33	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	1.23	1.22	1.20	ng / m ³	1.2	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.msvbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20209

Report Issued Date: 21.11.2022

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 Sample Receipt : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. 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) - 2006	<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

Recognition by MoEF under Environment (Protection) Act, 1986 and Accredited by NABL

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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022283F

Report Issued Date: 21.11.2022

- 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 Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	58.6	59.7	57.7	µg / m ³	58.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	17.2	18.4	16.4	µg / m ³	17.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	13.2	14.3	12.6	µg / m ³	13.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.1	18.2	16.3	µg / m ³	17.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.1	8.0	7.9	µg / m ³	8.0	100
6	Lead	IS-5182(Part22) - 2004	0.023	0.022	0.021	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.41	0.43	0.40	mg / m ³	0.44	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	1.30	1.32	ng / m ³	1.3	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 : 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/2022/20208

Report Issued Date: 21.11.2022

- 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 Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- 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) - 2006	<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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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: TC720722000022682F

Report Issued Date: 28.11.2022

- 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 Sample Receipt : 23.11.2022
- Analysis Starting Date : 24.11.2022
- Analysis Completion Date : 28.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	62.1	63.4	61.1	µg / m ³	62.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.1	22.1	20.1	µg / m ³	21.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.7	11.8	10.6	µg / m ³	11.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.8	19.2	17.3	µg / m ³	18.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.3	10.2	10.1	µg / m ³	10.2	100
6	Lead	IS-5182(Part22) - 2004	0.08	0.07	0.06	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.21	0.20	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	1.21	1.20	1.19	ng / m ³	1.22	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:-

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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/2022/20419

Report Issued Date: 28.11.2022

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 : 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 Sample Receipt : 23.11.2022
6. Analysis Starting Date : 24.11.2022
7. Analysis Completion Date : 28.11.2022
8. 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) - 2006	<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.Chinba 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: TC720722000022685F

Report Issued Date: 28.11.2022

- 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 : Kallahalli Village
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt : 23.11.2022
- Analysis Starting Date : 24.11.2022
- Analysis Completion Date : 28.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	55.2	54.3	53.2	µg / m ³	54.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.4	15.6	14.5	µg / m ³	15.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.1	9.1	8.5	µg / m ³	9.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.6	14.9	13.8	µg / m ³	14.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	8.2	8.1	µg / m ³	8.2	100
6	Lead	IS-5182(Part22) - 2004	0.023	0.022	0.021	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.27	0.26	0.25	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	1.83	1.82	1.80	ng / m ³	1.8	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.Chitra 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/2022/20422

Report Issued Date: 28.11.2022

- 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** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 23.11.2022
- Analysis Starting Date** : 24.11.2022
- Analysis Completion Date** : 28.11.2022
- 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) - 2006	<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

--: END OF REPORT:--

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC72072200022684F

Report Issued Date: 28 .11.2022

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 Sample Receipt : 23.11.2022
6. Analysis Starting Date : 24 .11.2022
7. Analysis Completion Date : 28 .11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	54.2	53.2	52.3	µg / m ³	53.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.5	17.2	16.8	µg / m ³	17.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.1	8.5	7.6	µg / m ³	8.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.9	14.2	13.2	µg / m ³	14.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.7	8.5	8.3	µg / m ³	8.5	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.024	0.025	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.27	0.25	0.23	mg / m ³	0.3	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	1.35	ng / m ³	1.44	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:-

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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/2022/20421

Report Issued Date: 28.11.2022

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 Sample Receipt : 23.11.2022
6. Analysis Starting Date : 24.11.2022
7. Analysis Completion Date : 28.11.2022
8. 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) - 2006	<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

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

E-mail : msvallbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvallbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022683F

Report Issued Date: 28.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Gunda Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 23.11.2022
6. Analysis Starting Date : 24.11.2022
7. Analysis Completion Date : 28.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	55.2	54.3	54.1	µg / m ³	54.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.2	18.4	17.1	µg / m ³	18.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.6	11.3	10.2	µg / m ³	11.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.9	17.2	16.2	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.9	8.6	8.4	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.20	0.21	0.22	µg / m ³	0.22	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.24	0.22	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	1.23	1.25	1.29	ng / m ³	1.3	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.Channa Lingana Gouda
Chief executive of the laboratory

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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/2022/20420

Report Issued Date: 28.11.2022

- 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 Sample Receipt** : 23.11.2022
- Analysis Starting Date** : 24.11.2022
- Analysis Completion Date** : 28.11.2022
- 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) - 2006	<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



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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: TC720722000022804F

Report Issued Date: 29.11.2022

- 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 Sample Receipt : 24.11.2022
- Analysis Starting Date : 25.11.2022
- Analysis Completion Date : 29.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	58.2	55.2	54.6	µg / m ³	56.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.3	23.4	21.2	µg / m ³	22.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	14.4	15.5	13.3	µg / m ³	14.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.4	20.1	18.2	µg / m ³	19.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.2	11.1	11.0	µg / m ³	11.1	100
6	Lead	IS-5182(Part22) - 2004	0.082	0.081	0.800	µg / m ³	0.33	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	1.23	1.22	1.21	ng / m ³	1.2	20

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

Analysed by



:- END OF REPORT:-

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

- 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 AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/20477

Report Issued Date: 29.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, 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 Sample Receipt : 24.11.2022
6. Analysis Starting Date : 25.11.2022
7. Analysis Completion Date : 29.11.2022
8. 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) - 2006	<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:-

MSVAL/A/F/16/03

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



ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022807F

Report Issued Date: 29.11.2022

- 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 Sample Receipt : 24.11.2022
- Analysis Starting Date : 25.11.2022
- Analysis Completion Date : 29.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	49.2	48.3	47.2	µg / m ³	48.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.3	17.2	16.3	µg / m ³	17.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.7	9.6	8.6	µg / m ³	9.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.0	12.2	11.6	µg / m ³	12.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.31	8.30	8.27	µg / m ³	8.3	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.023	0.022	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.27	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	1.87	1.86	1.85	ng / m ³	1.9	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

-: END OF REPORT:-

- Note :
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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/2022/20480

Report Issued Date: 29.11.2022

- 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 Sample Receipt** : 24 .11.2022
- Analysis Starting Date** : 25.11.2022
- Analysis Completion Date** : 29.11.2022
- 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) - 2006	<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

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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: TC720722000022806F

Report Issued Date: 29.11.2022

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 : Vyasanakere Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample :
5. Date of Sample Receipt : 24.11.2022
6. Analysis Starting Date : 25.11.2022
7. Analysis Completion Date : 29.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	59.2	58.4	57.2	µg / m ³	58.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.4	19.2	18.1	µg / m ³	19.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.1	11.2	10.3	µg / m ³	11.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.3	13.7	13.4	µg / m ³	14.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.8	8.7	8.6	µg / m ³	8.7	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.025	0.024	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.27	0.28	0.26	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	1.38	1.37	1.36	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

-: END OF REPORT:-

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MSV Analytical Laboratories

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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/2022/20478

Report Issued Date: 29.11.2022

- 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 Sample Receipt** : 24.11.2022
- Analysis Starting Date** : 25.11.2022
- Analysis Completion Date** : 29.11.2022
- 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) - 2006	<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.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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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



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000022805F

Report Issued Date: 29.11.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, 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 Sample Receipt : 24.11.2022
6. Analysis Starting Date : 25.11.2022
7. Analysis Completion Date : 29.11.2022
8. 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 µg/m ³	IS-5182(Part-23) - 2006	50.2	51.4	49.6	µg / m ³	50.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.6	20.3	18.2	µg / m ³	19.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	10.9	9.2	µg / m ³	10.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	11.2	12.3	9.8	µg / m ³	11.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	9.7	9.6	µg / m ³	9.7	100
6	Lead	IS-5182(Part22) - 2004	0.021	0.020	0.019	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.29	0.27	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	1.27	1.26	1.25	ng / m ³	1.3	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.Channa 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/2022/20479

Report Issued Date: 29.11.2022

- 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 Sample Receipt** : 24.11.2022
- Analysis Starting Date** : 25.11.2022
- Analysis Completion Date** : 29.11.2022
- 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) - 2006	<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.Channa 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: TC720722000021032F

Report Issued Date: 17.11.2022

- 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 Sample Receipt : 12.11.2022
- Analysis Starting Date : 14.11.2022
- Analysis Completion Date : 17.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	59.1	58.6	54.2	µg / m ³	57.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.6	18.4	17.4	µg / m ³	18.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.0	10.	9.2	µg / m ³	10.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.4	16.8	16.0	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.2	12.0	11.8	µg / m ³	12.0	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.031	0.035	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.36	0.34	mg / m ³	0.44	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	1.3	1.32	1.36	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



:- END OF REPORT:-

Authorized Signatory
B. Channa Lingana Gouda
B.Channa 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: TC720722000022282F

Report Issued Date: 21.11.2022

- 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** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 16.11.2022
- Analysis Starting Date** : 17.11.2022
- Analysis Completion Date** : 21.11.2022
- 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 µg/m ³	IS-5182(Part-23) - 2006	54.5	55.6	58.2	µg / m ³	56.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.4	24.5	22.3	µg / m ³	23.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	19.1	19.9	18.4	µg / m ³	19.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	21.2	21.9	20.1	µg / m ³	21.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	0.41	0.42	0.40	µg / m ³	0.4	100
6	Lead	IS-5182(Part22) - 2004	0.035	0.034	0.033	µg / m ³	0.11	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.41	0.42	0.40	mg / m ³	0.4	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	1.2	1.1	1.0	ng / m ³	1.11	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

:- 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: TC720722000022492F

Report Issued Date : 24.11.2022

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 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 : 19.11.2022
6. Analysis Starting Date : 21.11.2022
7. Analysis Completion Date : 24.11.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	19.11.2022
Fuel Used	---
Stack Temperature (°C)	40
Velocity (m/s)	5.6
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	27.1	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

:- END OF REPORT:-

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000022493F

Report Issued Date: 24.11.2022

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 : 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 : 19.11.2022
6. Analysis Starting Date : 21.11.2022
7. Analysis Completion Date : 24.11.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	19.11.2022
Fuel Used	---
Stack Temperature (°C)	36
Velocity (m/s)	5.5
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	23.2	50

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

Analysed by



Authorized Signatory

B.Chinnna Lingana Gouda

Chief executive of the laboratory

-: END OF REPORT:-

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TC-7207

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000022293F

Report Issued Date : 21.11.2022

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 : 16.11.2022
6. Analysis Starting Date : 17.11.2022
7. Analysis Completion Date : 21.11.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	16.11.2022
Fuel Used	---
Stack Temperature (°C)	42
Velocity (m/s)	5.6
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	22.1	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

:- END OF REPORT:-

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000022294F

Report Issued Date: 21.11.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID : DG Set 750 KVA
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 16.11.2022
- Analysis Starting Date : 17.11.2022
- Analysis Completion Date : 21.11.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	16.11.2022
Fuel Used	Diesel
Stack Temperature (°C)	102
Velocity (m/s)	6.8
Height (m)	15mtrs AGL
Diameter (m)	0.3
Cross sectional area (m ²)	0.07065

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Consent Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	20.1	100
Sulphur dioxide	IS-11255(Part2) - 1985	PPM	22.3	50
Nitrogen dioxide	IS-11255(Part7) - 2005	PPM	17.7	50

INFERENCE	As per KSPCB Consent 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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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TTC720722000021156F

Report Issued Date : 18.11.2022

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-1
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 14.11.2022
6. Analysis Starting Date : 15.11.2022
7. Analysis Completion Date : 18.11.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	14.11.2022
Fuel Used	----
Stack Temperature (°C)	104
Velocity (m/s)	6.5
Height (m)	60 mtrs AGL
Diameter (m)	3.4
Cross sectional area (m ²)	9.0746

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	33.8	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	30.1	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	22.6	500
Carbon Monoxide as(CO)	IS 13270	%	0.20	Max 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

-: 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.
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.



MSV Analytical Laboratories

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(Certified by ISO-14001-2015, ISO 22000-2018, ISO 45001-2018, ISO 9001-2015)
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
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: TC720722000021158F

Report Issued Date: 18.11.2022

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 : Ferro Alloy Arc Furnace
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 14.11.2022
6. Analysis Starting Date : 15.11.2022
7. Analysis Completion Date : 18.11.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	14.11.2022
Fuel Used	----
Stack Temperature (°C)	96
Velocity (m/s)	6.1
Height (m)	35 mtrs AGL
Diameter (m)	2.5
Cross sectional area (m ²)	4.90625

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	27.0	150

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



-: END OF REPORT:-

Authorized Signatory

B.Chinna Lingana Gouda
Chief executive of the laboratory

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/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000021157F

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	:	14.11.2022
6. Analysis Starting Date	:	15.11.2022
7. Analysis Completion Date	:	18.11.2022
8. Sample Tested as Received	:	

Report Issued Date : 18.11.2022

GENERAL DETAILS

Date of Monitoring	14.11.2022
Fuel Used	----
Stack Temperature (°C)	85
Velocity (m/s)	6.1
Height (m)	60 mtrs AGL
Diameter (m)	3.4
Cross sectional area (m ²)	9.0746

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	30.1	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	35.2	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	58.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.20	Max 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

:- END OF REPORT:-

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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