



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: TC720722000018951F

Report Issued Date: 07.10.2022

- 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** : 03.10.2022
- Analysis Starting Date** : 04.10.2022
- Analysis Completion Date** : 07.10.2022
- 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	68.4	61.4	60.2	µg / m ³	63.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.6	20.6	19.4	µg / m ³	20.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	14.2	16.2	11.9	µg / m ³	14.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.1	18.2	14.5	µg / m ³	16.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	8.8	7.5	µg / m ³	8.5	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.027	0.018	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.34	0.26	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	1.20	1.24	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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End of The Report

Authorized Signature

- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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 asterisk are not accredited by NABL.



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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9901

Report Issued Date: 07.10.2022

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 APM450 and FDS GTI-131
5. Date of Sample Receipt : 03.10.2022
6. Analysis Starting Date : 04.10.2022
7. Analysis Completion Date : 07.10.2022
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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-: End of The Report:-



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018954F

Report Issued Date: 07.10.2022

- 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 : 03.10.2022
- Analysis Starting Date : 04.10.2022
- Analysis Completion Date : 07.10.2022
- 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	46.8	45.4	44.2	µg / m ³	45.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.5	17.2	16.4	µg / m ³	17.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.7	10.8	9.8	µg / m ³	10.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.3	12.3	11.7	µg / m ³	12.4	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.7	8.2	7.6	µg / m ³	8.2	100
6	Lead	IS-5182(Part22) - 2004	0.25	0.28	0.20	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.40	0.52	0.32	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	13.3	12.3	11.7	ng / m ³	12.4	20

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

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- 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.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9904

Report Issued Date: 07.10.2022

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 : 03.10.2022
6. Analysis Starting Date : 04.10.2022
7. Analysis Completion Date : 07.10.2022
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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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018953F

Report Issued Date: 07.10.2022

- 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 : Vyasanakere Village
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample :
- Date of Sample Receipt : 03.10.2022
- Analysis Starting Date : 04.10.2022
- Analysis Completion Date : 07.10.2022
- 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	58.4	57.4	56.4	µg / m ³	57.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.7	17.6	16.7	µg / m ³	17.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.9	11.9	10.9	µg / m ³	11.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.2	17.5	16.7	µg / m ³	17.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.5	8.2	6.8	µg / m ³	7.8	100
6	Lead	IS-5182(Part22) - 2004	0.017	0.019	0.015	µg / m ³	0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.20	0.21	0.16	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	1.20	1.28	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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Note: 1. The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9903

Report Issued Date: 07.10.2022

- 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** : Vyasanakere 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** : 03.10.2022
- Analysis Starting Date** : 04.10.2022
- Analysis Completion Date** : 07.10.2022
- 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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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018952F

Report Issued Date: 07.10.2022

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 : 03.10.2022
6. Analysis Starting Date : 04.10.2022
7. Analysis Completion Date : 07.10.2022
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	48.5	47.5	46.6	µg / m ³	47.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.1	19.2	18.4	µg / m ³	19.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.8	10.8	9.9	µg / m ³	10.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.7	12.5	11.4	µg / m ³	12.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	7.6	7.5	µg / m ³	7.8	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.022	0.20	µg / m ³	0.1	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.28	0.20	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	1.20	1.28	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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:- End of The Report:-



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- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/ 9902

Report Issued Date: 07.10.2022

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 : 03.10.2022
6. Analysis Starting Date : 04.10.2022
7. Analysis Completion Date : 07.10.2022
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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019095F

Report Issued Date: 11.10.2022

- 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 : 06.10.2022
- Analysis Starting Date : 07.10.2022
- Analysis Completion Date : 11.10.2022
- 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	54.2	53.8	µg / m ³	54.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.1	19.4	18.2	µg / m ³	19.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	8.3	7.7	µg / m ³	8.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.5	12.1	10.8	µg / m ³	12.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	9.5	8.8	µg / m ³	9.2	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.023	0.021	µg / m ³	0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.37	0.34	0.32	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	1.27	1.26	1.24	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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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9968

Report Issued Date: 11.10.2022

- 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 : 06.10.2022
- Analysis Starting Date : 07.10.2022
- Analysis Completion Date : 11.10.2022
- 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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:- End of The Report:-



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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: TC720722000019098F

Report Issued Date: 11.10.2022

- 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 : 06.10.2022
- Analysis Starting Date : 07.10.2022
- Analysis Completion Date : 11.10.2022
- 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	50.2	49.4	µg / m ³	50.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.5	15.2	14.2	µg / m ³	15.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.4	8.6	7.9	µg / m ³	9.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.2	13.6	13.1	µg / m ³	14.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.7	7.4	6.2	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.026	0.028	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.47	0.43	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	1.20	1.21	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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End of The Report:-

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- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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/2022/9971

Report Issued Date: 11.10.2022

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 : 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 : 06.10.2022
6. Analysis Starting Date : 07.10.2022
7. Analysis Completion Date : 11.10.2022
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

Verified by

--End of The Report--



Authorized Signature

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 : 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: TC720722000019096F

Report Issued Date: 11.10.2022

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 : 06.10.2022
6. Analysis Starting Date : 07.10.2022
7. Analysis Completion Date : 11.10.2022
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	53.4	52.6	51.6	µg / m ³	52.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.6	19.2	18.4	µg / m ³	19.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.2	9.5	9.1	µg / m ³	9.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.9	11.9	11.5	µg / m ³	12.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.9	8.6	8.3	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.018	0.018	0.018	µg / m ³	0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.19	0.17	0.19	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	1.28	1.29	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
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- Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvallbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9969

Report Issued Date: 11.10.2022

- 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 : 06.10.2022
- Analysis Starting Date : 07.10.2022
- Analysis Completion Date : 11.10.2022
- 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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:- End of The Report:-



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



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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019097F

Report Issued Date: 11.10.2022

- 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 : 06.10.2022
- Analysis Starting Date : 07.10.2022
- Analysis Completion Date : 11.10.2022
- 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	57.2	56.2	55.2	µg / m ³	56.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.2	15.6	14.2	µg / m ³	15.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.2	9.3	6.6	µg / m ³	8.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	11.2	9.4	8.2	µg / m ³	9.6	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.5	8.3	8.1	µg / m ³	8.3	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.023	0.021	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.25	0.22	0.24	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	1.25	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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End of The Report:-

Authorized Signature

- 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/2022/9970

Report Issued Date: 11.10.2022

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 : 06.10.2022
6. Analysis Starting Date : 07.10.2022
7. Analysis Completion Date : 11.10.2022
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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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: TC720722000019214F

Report Issued Date: 13.10.2022

- 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 : 08.10.2022
- Analysis Starting Date : 10.10.2022
- Analysis Completion Date : 13.10.2022
- 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	56.7	55.6	54.2	µg / m ³	55.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	30.4	29.2	28.4	µg / m ³	29.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.9	9.1	7.9	µg / m ³	9.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.5	15.8	15.2	µg / m ³	15.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.4	9.3	9.2	µg / m ³	9.3	100
6	Lead	IS-5182(Part22) - 2004	0.031	0.030	0.029	µg / m ³	0.01	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.43	0.42	0.41	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	1.29	1.28	1.27	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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- 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/2022/10024

Report Issued Date: 13.10.2022

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 : 08.10.2022
6. Analysis Starting Date : 10.10.2022
7. Analysis Completion Date : 13.10.2022
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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:- End of The Report:-



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019217F

Report Issued Date: 13.10.2022

- 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 : 08.10.2022
- Analysis Starting Date : 10.10.2022
- Analysis Completion Date : 13.10.2022
- 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	57.4	58.2	µg / m ³	57.9	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.3	19.2	18.4	µg / m ³	19.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.1	9.2	9.5	µg / m ³	9.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.2	16.9	15.9	µg / m ³	17.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.3	11.4	10.6	µg / m ³	11.4	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	0.34	0.33	0.32	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	1.22	1.21	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
-----------	---

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End of the Report:-

Authorized Signature

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



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10027

Report Issued Date: 13.10.2022

- 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 : 08.10.2022
- Analysis Starting Date : 10.10.2022
- Analysis Completion Date : 13.10.2022
- 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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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: TC720722000019216F

Report Issued Date: 13.10.2022

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 : 08.10.2022
6. Analysis Starting Date : 10.10.2022
7. Analysis Completion Date : 13.10.2022
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	51.2	50.3	49.4	µg / m ³	50.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	38.6	37.5	36.4	µg / m ³	37.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.8	6.9	5.8	µg / m ³	6.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	12.8	11.7	11.6	µg / m ³	12.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.6	7.5	7.2	µg / m ³	7.4	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	0.25	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	1.26	1.25	1.23	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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- 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.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10026

Report Issued Date: 13.10.2022

- 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 : 08.10.2022
- Analysis Starting Date : 10.10.2022
- Analysis Completion Date : 13.10.2022
- 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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--: End of The Report



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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: TC720722000019215F

Report Issued Date: 13.10.2022

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 : 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 : 08.10.2022
6. Analysis Starting Date : 10.10.2022
7. Analysis Completion Date : 13.10.2022
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	53.1	52.1	µg / m ³	53.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.6	21.4	20.5	µg / m ³	21.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.1	9.1	8.9	µg / m ³	9.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.2	17.5	15.7	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.6	8.5	8.2	µg / m ³	8.4	100
6	Lead	IS-5182(Part22) - 2004	0.041	0.040	0.039	µg / m ³	0.04	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.25	0.24	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	1.31	1.30	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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End of The Report

Authorized Signature

- 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/2022/10025

Report Issued Date: 13.10.2022

- 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 : 08.10.2022
- Analysis Starting Date : 10.10.2022
- Analysis Completion Date : 13.10.2022
- 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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End of The Report:-



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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: TC720722000019374F

Report Issued Date: 15.10.2022

- 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 : 11.10.2022
- Analysis Starting Date : 12.10.2022
- Analysis Completion Date : 15.10.2022
- 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	57.5	µg / m ³	59.0	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	30.3	28.3	26.4	µg / m ³	28.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.3	11.2	9.8	µg / m ³	11.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.9	16.6	14.9	µg / m ³	16.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.5	9.2	9.1	µg / m ³	9.3	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.035	0.036	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.43	0.48	0.45	mg / m ³	0.5	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	1.35	1.39	ng / m ³	1.3	20

INFERENCE

As per NAAQS Standards

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

Verified by

:- End of The Report:-



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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.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10097

Report Issued Date: 15.10.2022

- 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 : 11.10.2022
- Analysis Starting Date : 12.10.2022
- Analysis Completion Date : 15.10.2022
- 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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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: TC720722000019375F

Report Issued Date: 15.10.2022

- 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** : 11.10.2022
- Analysis Starting Date** : 12.10.2022
- Analysis Completion Date** : 15.10.2022
- 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	53.2	51.7	µg / m ³	53.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.4	16.4	15.3	µg / m ³	16.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.2	10.8	9.9	µg / m ³	11.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.4	14.8	13.8	µg / m ³	15.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.2	8.6	8.9	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.25	0.28	0.22	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.25	0.36	0.37	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	1.27	1.28	1.39	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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End of The Report

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10098

Report Issued Date: 15.10.2022

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 : 11.10.2022
6. Analysis Starting Date : 12.10.2022
7. Analysis Completion Date : 15.10.2022
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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Verified by



Authorized Signature

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, (0) : 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: TC720722000019377F

Report Issued Date: 15.10.2022

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 : 11.10.2022
6. Analysis Starting Date : 12.10.2022
7. Analysis Completion Date : 15.10.2022
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	52.6	51.4	50.3	µg / m ³	51.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	27.3	25.6	23.2	µg / m ³	25.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.6	10.1	9.5	µg / m ³	10.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.1	14.9	13.1	µg / m ³	14.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.6	7.8	7.9	µg / m ³	7.8	100
6	Lead	IS-5182(Part22) - 2004	0.031	0.036	0.035	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.35	0.26.	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	1.22	1.23	1.25	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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Verified by



End of the Report:-

Authorized Signature

- 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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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10100

Report Issued Date: 15.10.2022

- 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 : 11.10.2022
- Analysis Starting Date : 12.10.2022
- Analysis Completion Date : 15.10.2022
- 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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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: TC720722000019376F

Report Issued Date: 15.10.2022

- 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** : 11.10.2022
- Analysis Starting Date** : 12.10.2022
- Analysis Completion Date** : 15.10.2022
- 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	56.3	55.4	53.6	µg / m ³	55.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.5	18.4	17.6	µg / m ³	18.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.9	9.6	8.1	µg / m ³	9.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.9	16.5	13.8	µg / m ³	16.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.5	11.6	10.6	µg / m ³	11.6	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.035	0.029	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.35	0.42	0.55	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	1.18	1.35	1.39	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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:- End of The Report:-



Authorized Signature

- Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be 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/2022/10099

Report Issued Date: 15.10.2022

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 : 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 : 11.10.2022
6. Analysis Starting Date : 12.10.2022
7. Analysis Completion Date : 15.10.2022
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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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019637F

Report Issued Date: 21.10.2022

- 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 : 17.10.2022
- Analysis Starting Date : 18.10.2022
- Analysis Completion Date : 21.10.2022
- 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	59.2	58.5	57.1	µg / m ³	58.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	24.8	23.6	22.6	µg / m ³	23.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.2	10.5	9.1	µg / m ³	10.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	20.1	18.8	17.8	µg / m ³	18.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	9.8	8.4	µg / m ³	9.1	100
6	Lead	IS-5182(Part22) - 2004	0.21	0.29	0.32	µg / m ³	0.3	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.35	0.32	0.38	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	1.20	1.23	1.25	ng / m ³	1.2	20

INFERENCE

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

Verified by



Authorized Signature

- Note: 1. The results listed only to the tested samples & applicable parameters.
2. Water samples will destroyed after 10days, Filter papers & Thimbies 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.
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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10263

Report Issued Date: 21.10.2022

- 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 : 17.10.2022
- Analysis Starting Date : 18.10.2022
- Analysis Completion Date : 21.10.2022
- 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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:- End of The Report:-





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: TC720722000019639F

Report Issued Date: 21.10.2022

- 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 : 17.10.2022
- Analysis Starting Date : 18.10.2022
- Analysis Completion Date : 21.10.2022
- 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	54.8	53.6	µg / m ³	54.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.7	19.8	18.7	µg / m ³	19.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.4	8.1	6.9	µg / m ³	8.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.9	15.8	14.9	µg / m ³	15.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.5	8.9	8.4	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.32	0.35	0.36	µg / m ³	0.3	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.28	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	1.35	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

Verified by



Authorized Signature

- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10265

Report Issued Date: 21.10.2022

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 : 17.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
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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End of The Report:-

Authorized Signature

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



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019640F

Report Issued Date: 21.10.2022

- 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 : 17.10.2022
- Analysis Starting Date : 18.10.2022
- Analysis Completion Date : 21.10.2022
- 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	53.1	52.8	51.2	µg / m ³	52.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.3	17.1	16.8	µg / m ³	17.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.5	7.9	7.2	µg / m ³	7.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.4	17.5	16.4	µg / m ³	17.4	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.5	7.2	7.6	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.15	0.18	0.16	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.34	0.30	0.25	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	1.25	1.26	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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Authorized Signature

Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
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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/2022/10266

Report Issued Date: 21.10.2022

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 : 17.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
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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End of The Report:-



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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: TC720722000019638F

Report Issued Date: 21.10.2022

- 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 : 17.10.2022
- Analysis Starting Date : 18.10.2022
- Analysis Completion Date : 21.10.2022
- 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	53.7	52.6	µg / m ³	53.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.7	18.4	17.2	µg / m ³	18.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.4	6.8	6.1	µg / m ³	6.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.5	16.4	14.8	µg / m ³	15.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.2	7.9	7.5	µg / m ³	7.5	100
6	Lead	IS-5182(Part22) - 2004	0.02	0.05	0.07	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.27	0.23	0.19	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	1.25	1.29	1.30	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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- 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/2022/10264

Report Issued Date: 21.10.2022

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 : 17.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
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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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

Report Issued Date: 24.10.2022

Test Report No: TC720722000019823F

- 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 : 19.10.2022
- Analysis Starting Date : 20.10.2022
- Analysis Completion Date : 24.10.2022
- 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	57.6	56.3	54.2	µg / m ³	56.0	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	28.5	26.3	24.6	µg / m ³	26.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.3	8.9	8.7	µg / m ³	9.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.7	15.1	12.7	µg / m ³	14.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.2	11.4	9.2	µg / m ³	10.3	100
6	Lead	IS-5182(Part22) - 2004	0.034	0.030	0.026	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.40	0.44	0.32	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	1.32	1.24	1.26	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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- 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.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10329

Report Issued Date: 24.10.2022

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 : Smlre 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 : 19.10.2022
6. Analysis Starting Date : 20.10.2022
7. Analysis Completion Date : 24.10.2022
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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E-mail : msvalbellary2016@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019824F

Report Issued Date: 24.10.2022

- 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 : 19.10.2022
- Analysis Starting Date : 20.10.2022
- Analysis Completion Date : 24.10.2022
- 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	58.8	57.2	55.4	µg / m ³	57.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.3	18.4	17.5	µg / m ³	18.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.6	9.9	8.6	µg / m ³	9.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.7	15.8	13.9	µg / m ³	15.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.2	9.5	8.3	µg / m ³	9.3	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.030	0.022	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.34	0.39	0.30	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	1.20	1.15	1.10	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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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/2022/10330

Report Issued Date: 24.10.2022

- 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** : 19.10.2022
- Analysis Starting Date** : 20.10.2022
- Analysis Completion Date** : 24.10.2022
- 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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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: TC720722000019826F

Report Issued Date: 24.10.2022

- 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 : 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 : 19.10.2022
- Analysis Starting Date : 20.10.2022
- Analysis Completion Date : 24.10.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Toleranc e limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	53.4	54.5	51.6	µg / m ³	53.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	29.6	30.4	26.4	µg / m ³	28.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	10.7	8.6	µg / m ³	9.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.2	15.7	12.7	µg / m ³	14.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	7.2	6.4	µg / m ³	7.3	100
6	Lead	IS-5182(Part22) - 2004	0.020	0.024	0.018	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.26	0.24	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	1.20	1.26	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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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10332

Report Issued Date: 24.10.2022

- 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** : 19.10.2022
- Analysis Starting Date** : 20.10.2022
- Analysis Completion Date** : 24.10.2022
- 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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:- End of The Report:-



Authorized Signature

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 : msvbellary2016@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019825F

Report Issued Date: 24.10.2022

- 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 : 19.10.2022
- Analysis Starting Date : 20.10.2022
- Analysis Completion Date : 24.10.2022
- 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	56.3	54.4	µg / m ³	56.0	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.3	20.4	18.6	µg / m ³	20.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.5	8.3	6.7	µg / m ³	8.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.9	15.3	14.5	µg / m ³	15.6	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.2	10.2	9.6	µg / m ³	10.3	100
6	Lead	IS-5182(Part22) - 2004	0.019	0.030	0.018	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.35	0.30	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	1.30	1.26	1.22	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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Verified by



Authorized Signature

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



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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10331

Report Issued Date: 24.10.2022

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 : 19.10.2022
6. Analysis Starting Date : 20.10.2022
7. Analysis Completion Date : 24.10.2022
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
-----------	---

Verified by

End of The Report:-



Authorized Signature

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 & unnot 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 nount. 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 * e 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: TC720722000019951F

Report Issued Date: 27.10.2022

- 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 : 22.10.2022
- Analysis Starting Date : 24.10.2022
- Analysis Completion Date : 27.10.2022
- 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	58.9	56.1	55.4	µg / m ³	56.8	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.1	22.4	21.2	µg / m ³	22.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	11.4	9.9	9.5	µg / m ³	10.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.4	18.8	16.9	µg / m ³	18.4	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.6	10.8	9.2	µg / m ³	10.5	100
6	Lead	IS-5182(Part22) - 2004	0.029	0.021	0.024	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.34	0.31	0.28	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	1.32	1.31	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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- 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.
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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/2022/10449

Report Issued Date: 27.10.2022

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 : 22.10.2022
6. Analysis Starting Date : 24.10.2022
7. Analysis Completion Date : 27.10.2022
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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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: TC720722000019952F

Report Issued Date: 27.10.2022

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 : 22.10.2022
6. Analysis Starting Date : 24.10.2022
7. Analysis Completion Date : 27.10.2022
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	52.4	51.3	50.4	µg / m ³	51.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.6	17.4	16.8	µg / m ³	17.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.6	7.4	6.2	µg / m ³	7.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.7	14.7	13.6	µg / m ³	14.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.4	7.6	6.2	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.033	0.031	0.029	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.23	0.21	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	1.26	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
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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/2022/10450

Report Issued Date: 27.10.2022

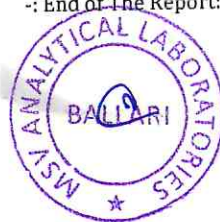
1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Kallahalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 22.10.2022
6. Analysis Starting Date : 24.10.2022
7. Analysis Completion Date : 27.10.2022
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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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: TC720722000019954F

Report Issued Date: 27.10.2022

- 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 : 22.10.2022
- Analysis Starting Date : 24.10.2022
- Analysis Completion Date : 27.10.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Toleranc e limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	53.5	52.6	51.6	µg / m ³	52.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	14.6	13.2	12.4	µg / m ³	13.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.4	5.9	5.4	µg / m ³	6.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	12.3	10.6	10.5	µg / m ³	11.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.2	6.5	5.1	µg / m ³	6.3	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.024	0.024	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.30	0.28	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	1.22	1.18	1.10	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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End of the Report:-

Authorized Signature

- 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/2022/10452

Report Issued Date: 27.10.2022

- 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 : 22.10.2022
- Analysis Starting Date : 24.10.2022
- Analysis Completion Date : 27.10.2022
- 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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End of The Report:-



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MSV Analytical Laboratories

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000019953F

Report Issued Date: 27.10.2022

- 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** : 22.10.2022
- Analysis Starting Date** : 24.10.2022
- Analysis Completion Date** : 27.10.2022
- 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	55.3	54.2	53.2	µg / m ³	54.2	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.6	19.2	18.4	µg / m ³	19.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.5	5.9	5.1	µg / m ³	6.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.4	14.1	12.8	µg / m ³	14.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.9	7.2	6.1	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.034	0.031	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.36	0.33	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	1.32	1.31	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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End of The Report:-

Authorized Signature

- 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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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
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/2022/10451

Report Issued Date: 27.10.2022

- 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** : 22.10.2022
- Analysis Starting Date** : 24.10.2022
- Analysis Completion Date** : 27.10.2022
- 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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End of The Report:-



Authorized Signature



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: TC720722000020094F

Report Issued Date: 29.10.2022

- 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 : 24.10.2022
- Analysis Starting Date : 25.10.2022
- Analysis Completion Date : 29.10.2022
- 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	58.5	57.5	56.2	µg / m ³	57.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.7	22.2	21.5	µg / m ³	22.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	9.1	8.1	µg / m ³	9.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.3	17.8	16.3	µg / m ³	17.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.3	11.2	10.9	µg / m ³	11.1	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.030	0.027	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.36	0.34	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	1.28	1.24	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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Verified by

Date of the Report:-



Authorized Signature

- 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/2022/10500

Report Issued Date: 29.10.2022

- 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** : 24.10.2022
- Analysis Starting Date** : 25.10.2022
- Analysis Completion Date** : 29.10.2022
- 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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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: TC720722000020097F

Report Issued Date: 29.10.2022

- 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** : 24.10.2022
- Analysis Starting Date** : 25.10.2022
- Analysis Completion Date** : 29.10.2022
- 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	56.8	55.2	54.2	µg / m ³	55.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.4	18.5	17.2	µg / m ³	18.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	8.8	8.1	µg / m ³	9.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.6	16.7	15.6	µg / m ³	17.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.9	7.4	6.2	µg / m ³	7.5	100
6	Lead	IS-5182(Part22) - 2004	0.027	0.025	0.023	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.26	0.24	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	1.21	1.18	1.15	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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- Note:
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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/2022/10503

Report Issued Date: 29.10.2022

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 : 24.10.2022
6. Analysis Starting Date : 25.10.2022
7. Analysis Completion Date : 29.10.2022
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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--- End of The Report ---



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



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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000020096F

Report Issued Date: 29.10.2022

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 : 24.10.2022
6. Analysis Starting Date : 25.10.2022
7. Analysis Completion Date : 29.10.2022
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	52.7	51.2	50.4	µg / m ³	51.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.5	15.2	14.4	µg / m ³	15.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.2	8.1	7.5	µg / m ³	8.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.4	14.7	13.8	µg / m ³	15.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.9	8.7	8.3	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.028	0.024	0.021	µg / m ³	0.02	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.32	0.30	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	1.25	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
-----------	---

Verified by



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- 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/2022/10502

Report Issued Date: 29.10.2022

- 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 : 24.10.2022
- Analysis Starting Date : 25.10.2022
- Analysis Completion Date : 29.10.2022
- 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

Verified by



End of The Report

Authorized Signature

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



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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000020095F

Report Issued Date: 29.10.2022

- 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 : 24.10.2022
- Analysis Starting Date : 25.10.2022
- Analysis Completion Date : 29.10.2022
- 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	55.8	54.2	53.6	µg / m ³	54.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.5	19.7	18.3	µg / m ³	19.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.2	7.4	6.1	µg / m ³	7.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.7	16.9	15.7	µg / m ³	17.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.7	8.3	7.6	µg / m ³	8.2	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.034	0.030	µg / m ³	0.03	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.27	0.24	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	1.25	1.22	1.17	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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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/10501

Report Issued Date: 29.10.2022

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 : 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 : 24.10.2022
6. Analysis Starting Date : 25.10.2022
7. Analysis Completion Date : 29.10.2022
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
-----------	---

Verified by

End of The Report



Authorized Signature



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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: TC720722000019605F

Report Issued Date : 21.10.2022

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 : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	15.10.2022
Fuel Used	---
Stack Temperature (°C)	42
Velocity (m/s)	6.1
Height (m)	15mtrs AGL
Diameter (m)	0.7
Cross sectional area (m ²)	0.38465

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	28.3	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	17.4	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	14.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.26	Max 1%

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

Verified by

Singh C.P.
Authorized Signature



- Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000019751F

Report Issued Date: 21.10.2022

- 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** : Coke Cutter
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected** : Sample collected with VSS - 1
- Date of Sample Receipt** : 15.10.2022
- Analysis Starting Date** : 18.10.2022
- Analysis Completion Date** : 21.10.2022
- Sample Tested as Received**

GENERAL DETAILS

Date of Monitoring	15.10.2022
Fuel Used	---
Stack Temperature (°C)	47
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	26.2	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	13.5	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	12.4	500
Carbon Monoxide as(CO)	IS 13270	%	0.24	Max 1%

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

Verified by

Authorized Signature



- Note :
- The results listed only to the tested samples & applicable parameters,
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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000019606F

Report Issued Date : 21.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID** : Coal Crushing Area
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected** : Sample collected with VSS - 1
- Date of Sample Receipt** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis Completion Date** : 22.10.2022
- Sample Tested as Received**

GENERAL DETAILS

Date of Monitoring	18.10.2022
Fuel Used	---
Stack Temperature (°C)	50
Velocity (m/s)	6.5
Height (m)	15mtrs AGL
Diameter (m)	0.75
Cross sectional area (m ²)	0.44156

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	24.6	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	16.2	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	9.4	500
Carbon Monoxide as(CO)	IS 13270	%	0.20	Max 1%

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

Verified by

Authorized Signature



:- END OF REPORT :-

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000019610F

Report Issued Date: 21.10.2022

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 : DG Set 750 KVA
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	15.10.2022
Fuel Used	Diesel
Stack Temperature (°C)	102
Velocity (m/s)	7.7
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	22.4	100
Sulphur dioxide	IS-11255(Part2) - 1985	PPM	24.4	50
Nitrogen dioxide	IS-11255(Part7) - 2005	PPM	19.5	50

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

Verified by

Authorized Signature



:- END OF REPORT :-

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TTC720722000019608F

Report Issued Date : 22.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID** : Coke Oven Battery - Passes Through WHRB-1
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected** : Sample collected with VSS - 1
- Date of Sample Receipt** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis Completion Date** : 22.10.2022
- Sample Tested as Received**

GENERAL DETAILS

Date of Monitoring	18.10.2022
Fuel Used	----
Stack Temperature (°C)	155
Velocity (m/s)	8.2
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	35.2	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	32.7	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	53.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.16	Max 1%

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

Verified by

Authorized Signature



:- END OF REPORT:-

- Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000019752F

Report Issued Date: 21.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID** : Ferro Alloy Arc Furnace
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected** : Sample collected with VSS - 1
- Date of Sample Receipt** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis Completion Date** : 22.10.2022
- Sample Tested as Received**

GENERAL DETAILS

Date of Monitoring	13.09.2022
Fuel Used	----
Stack Temperature (°C)	92
Velocity (m/s)	7.9
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	30.2	150

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

Verified by

Authorized Signature



- Note: 1. The results listed only to the tested samples & applicable parameters,
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TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000019609F

Report Issued Date : 22.10.2022

- 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 : Coke Oven Battery - Passes Through WHRB-2
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis Completion Date : 22.10.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	18.10.2022
Fuel Used	----
Stack Temperature (°C)	148
Velocity (m/s)	7.5
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	33.3	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	38.5	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	61.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.19	Max 1%

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

Verified by

Authorized Signature

END OF REPORT:-



- Note : 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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MSVAL/A/F/17/04

AMBIENT NOISE LEVEL MONITORING REPORT

Test Report No : TC720722000019607F

Report Issued Date : 21.10.2022

- Name of the industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Date of Monitoring : 15.10.2022
- Report Date : 21.10.2022
- Particulars of Sample Collected : Noise meter
- Method Adopted : IS 9989

S.No	Sample Location	Time Frequency	Day Time Results			Permissible limits in dB(A) Leq
			Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	
1	Smiore Colony	09.00 am to 10.00 am	46.7	43.0	44.8	55
2	Kallahalli Village	11.10 am to 12.10pm	50.4	46.2	48.3	
3	Vysanakere Village	01.30 pm to 02.30pm	50.1	45.3	47.7	
4	Gunda Village	02.00 pm to 3.00 pm	52.6	47.6	50.1	
5	Hanumanahalli (V)	03.10 pm to 04.10pm	47.4	42.8	45.1	
6	Venkatagiri Village	04.30 pm to 05.30pm	48.9	44.7	46.8	
7	Ramgad Village	05.30 pm to 05.30pm	43.2	41.0	42.1	
8	Rajapur Village	06.30 pm to 06.30pm	49.8	46.2	48.5	

INFERENCE

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

Verified by



Authorized Signature

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



TC-7207

MSVAL/A/F/17/04

FUGITIVE NOISE LEVEL MONITORING REPORT

Test Report No : TC720722000019603F

Report Issued Date : 21.10.2022

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. Sample Collected By : MSV Analytical Laboratories, Bellary
3. Date of Monitoring : 15.10.2022
4. Report Date : 21.10.2022
5. Particulars of Sample Collected : Noise meter
6. Method Adopted : IS 9989

S.No	Sample Location	Time Frequency	Day Time Results			Permissible limits in dB(A) Leq
			Maximum in dB(A) Leq	Minimum in dB(A) Leq	Avg. in dB(A) Leq	
1	Near Coal Crusher Area	09.00 am to 10.00 am	70.2	67.5	68.5	85
2	Coke Cutting Area	11.10 am to 12.10pm	69.8	66.8	67.5	
3	Coke Screening Area	01.30 pm to 02.30pm	72.5	68.5	70.2	
4	WHRB-1 Area	02.00 pm to 3.00 pm	68.5	65.9	66.5	
5	ARC Furnace Area	03.10 pm to 04.10pm	69.2	64.5	66.5	
6	Power Plante Area	04.30 pm to 05.30pm	71.5	70.5	70.5	
7	Coal Shed Area	05.30 pm to 05.30pm	67.8	64.5	65.5	
8	Coke Oven Area	06.30 pm to 06.30pm	73.6	69.5	71.5	

INFERENCE

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

Verified by



Authorized Signature

- 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/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10313	Report Issued Date: 22.10.2022
1. Name of the Industry	: M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vysanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2. Sample Type	: R.O. Water at SMIORE Plant Premises
3. Sample Collected By	: MSV Analytical Laboratories, Bellary.
4. Sample Quantity	: 250 ml (Sterilized Bottle)
5. Sample description/condition	: Good/satisfactory
6. Date of sample Receipt	: 18.10.2022
7. Analysis Starting Date	: 19.10.2022
8. Analysis Completion Date	: 22.10.2022
9. Sample tested as Received	

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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Verified by



End of the Report

Authorized Signature



MSV Analytical Laboratories

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

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

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10312

Report Issued Date: 22.10.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location : R.O. Water at SMIORE Plant Premises
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/satisfactory
- Date of sample Collection : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis completion Date : 22.10.2022
- Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.004	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.002	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.003	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.003	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.001	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.005	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 – 2012 Standards BDL – Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Acceptable limits.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvallbellary.com

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/19791

Report Issued Date: 22.10.2022

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. Name of the sample location : R.O. Water at SMIORE Plant Premises
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.36	6.5-8.5	No Relaxation
4	Turbidity	IS : 3025(part-10)	NTU	0.28	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	62	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	682	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	82.2	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	28.7	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	2.53	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	14.4	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	36.5	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	0.57	45	No Relaxation
13	Iron as Fe	IS : 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.12	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	6.4	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	4.5	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Acceptable limits.
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:-End of The Report:-


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1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the 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/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10332

Report Issued Date: 22.10.2022

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. Sample Type : Bore Well Water at Ramgad Reservoir
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

- Test Report No: TC720722000019795F
1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the sample location : Bore Well Water at Rajapura Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received
- Report Issued Date: 22.10.2022

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	6.88	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.48	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	162	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	984	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	310.8	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	64.7	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	36.21	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	42.8	200	400
11	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	132.9	250	1000
12	Chloride as Cl	IS : 3025(part-32)	mg/l	2.23	45	No Relaxation
13	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Iron as Fe	IS : 3025(part-34)	mg/l	BDL	0.3	No Relaxation
15	Fluoride as F	IS : 3025(part-60)	mg/l	0.34	1.0	1.5
16	Sodium as Na	IS 3025(part 45):1993	mg/l	16.2	---	---
16	Potassium as K	IS 3025(part 45):1993	mg/l	8.7	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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- Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will be destroyed after 10 days, Filter papers & Thimbles will be destroyed 3 months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
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MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10314

Report Issued Date: 22.10.2022

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. Name of the sample location : Bore Well Water at Rajapura Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.008	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.002	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.004	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.004	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.002	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.004	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
------------------	---

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

MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10315

Report Issued Date: 22.10.2022

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. Sample Type : Bore Well Water at Rajapura Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
-----------	--

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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 : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: TC720722000019796F	Report Issued Date: 22.10.2022
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. Name of the sample location	: Bore Well Water at Hanumanahalli Village
3. Sample Collected By	: MSV Analytical Laboratories, Bellary
4. Sample Quantity	: 2 Liters
5. Sample Description/condition	: Good/satisfactory
6. Date of sample Collection	: 18.10.2022
7. Analysis Starting Date	: 19.10.2022
8. Analysis completion Date	: 22.10.2022
9. Sample Tested as Received	

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.42	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.36	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	148	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	764	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	280.4	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	58.7	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	32.52	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	51.1	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	148.9	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.14	45	No Relaxation
13	Iron as Fe	IS: 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.40	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	12.2	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	7.6	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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Note: 1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an are not accredited by NABL.



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

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10317

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the sample location : Bore Well Water at Hanumanhalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.004	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.002	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.003	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.003	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.001	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.005	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
------------------	---

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End of The Report :-

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

MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10318

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Sample Type : Bore Well Water at Hanumanahalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: TC720722000019799F

Report Issued Date: 22.10.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location : Bore Well Water at Munirabad Village
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/satisfactory
- Date of sample Collection : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis completion Date : 22.10.2022
- Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	Ph	IS : 3025(part-11)	---	7.38	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.44	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	162	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	826	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	262.2	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	47.6	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	35.33	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	62.8	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	114.5	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.06	45	No Relaxation
13	Iron as Fe	IS: 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.34	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	14.2	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	7.8	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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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/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10321

Report Issued Date: 22.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location** : Bore Well Water at Munirabad Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Sample Quantity** : 2 Liters
- Sample Description/condition** : Good/satisfactory
- Date of sample Collection** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis completion Date** : 22.10.2022
- Sample Tested as Received**

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.003	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.001	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.004	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.005	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.002	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.003	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10322

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Sample Type : Bore Well Water at Munirabad Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: TC720722000019793F

Report Issued Date: 22.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location** : Bore Well Water at Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Sample Quantity** : 2 Liters
- Sample Description/condition** : Good/satisfactory
- Date of sample Collection** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis completion Date** : 22.10.2022
- Sample Tested as Received**

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.60	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.38	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	120	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	646	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	220.4	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	40.6	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	28.98	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	32.2	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	101.4	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	1.14	45	No Relaxation
13	Iron as Fe	IS: 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.30	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	12.2	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	5.8	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvallbellary.com

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10323

Report Issued Date: 22.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location** : Bore Well Water at Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Sample Quantity** : 2 Liters
- Sample Description/condition** : Good/satisfactory
- Date of sample Collection** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis completion Date** : 22.10.2022
- Sample Tested as Received**

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.005	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.003	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.002	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.002	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.006	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.004	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10324

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Sample Type : Bore Well Water at Vysanakere Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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E-mail : msvballary2018@gmail.com, labmsv@gmail.com, Website : www.msvballary.com
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ANALYSIS REPORT OF WATER QUALITY

Test Report No: TC720722000019799F

Report Issued Date: 22.10.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location : Bore Well Water at Venkatagiri Village
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/satisfactory
- Date of sample Collection : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis completion Date : 22.10.2022
- Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.87	6.5-8.5	No Relaxation
4	Turbidity	IS : 3025(part-10)	NTU	0.41	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	153	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	783	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	310.2	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	60.6	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	38.2	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	56.4	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	164.4	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.40	45	No Relaxation
13	Iron as Fe	IS : 3025(part-34)	mg/l	BDL(0.004)	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.44	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	12.1	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	7.4	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10325

Report Issued Date: 22.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location** : Bore Well Water at Venkatagiri Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary
- Sample Quantity** : 2 Liters
- Sample Description/condition** : Good/satisfactory
- Date of sample Collection** : 18.10.2022
- Analysis Starting Date** : 19.10.2022
- Analysis completion Date** : 22.10.2022
- Sample Tested as Received**

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.008	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.004	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.002	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.001	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.003	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.004	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10326

Report Issued Date: 22.10.2022

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. Sample Type : Bore Well Water at Venkatagiri Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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E-mail : msv.lab01@gmail.com, Labmsv@gmail.com, Website : www.msvalbellary.com

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10327

Report Issued Date: 22.10.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location : Bore Well Water at Hosapete
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/satisfactory
- Date of sample Collection : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis completion Date : 22.10.2022
- Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.68	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.44	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	136	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	734	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	306.2	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	60.7	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	37.57	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	46.4	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	132.5	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.14	45	No Relaxation
13	Iron as Fe	IS: 3025(part-34)	mg/l	BDL	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.36	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	8.6	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	4.6	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4.Total liability of our laboratory is limited to the 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/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10328

Report Issued Date: 22.10.2022

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. Name of the sample location : Bore Well Water at Hosapete
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.008	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.008	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.005	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.005	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.003	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.006	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE

IS 10500 - 2012 Standards

BDL - Below Detectable Limit

Report Status: - The analyzed values for above measured parameters are within the Permissible limits.

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

MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/10329

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Sample Type : Bore Well Water at Hosapete
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Sample Quantity : 250 ml (Sterilized Bottle)
5. Sample description/condition : Good/satisfactory
6. Date of sample Receipt : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis Completion Date : 22.10.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	IS 10500:2012 Specification
Total Coliform Bacteria	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml
Escherichia Coli	IS 1622:1981	MPN/ 100ml	Absent	Shall not be detectable in 100 ml

INFERENCE	IS - 10500 Standards Report Status: - The above parameters are within limits.
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MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10330

Report Issued Date: 22.10.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the sample location : Bore Well Water at Ramgad Reservoir
- Sample Collected By : MSV Analytical Laboratories, Bellary
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/satisfactory
- Date of sample Collection : 18.10.2022
- Analysis Starting Date : 19.10.2022
- Analysis completion Date : 22.10.2022
- Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Physical parameters						
1	Color	IS : 3025(part-4)	---	Colorless	5	15
2	Odor	IS : 3025(part-5)	---	Agreeable	Agreeable	Agreeable
3	pH	IS : 3025(part-11)	---	7.82	6.5-8.5	No Relaxation
4	Turbidity	IS: 3025(part-10)	NTU	0.40	1	5
Chemical parameters						
5	Alkalinity	IS : 3025(part-23)	mg/l	146	200	600
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	948	500	2000
7	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	312.5	200	600
8	Calcium as Ca	IS : 3025(part-40)	mg/l	64.4	75	200
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	36.81	30	100
10	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	52.2	200	400
11	Chloride as Cl	IS : 3025(part-32)	mg/l	136.9	250	1000
12	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.04	45	No Relaxation
13	Iron as Fe	IS: 3025(part-34)	mg/l	BDL(0.004)	0.3	No Relaxation
14	Fluoride as F	IS : 3025(part-60)	mg/l	0.44	1.0	1.5
15	Sodium as Na	IS 3025(part 45):1993	mg/l	13.3	---	---
16	Potassium as K	Is 3025(part 45):1993	mg/l	6.8	---	---

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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Authorized Signature

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

MSVAL/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/10331

Report Issued Date: 22.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the sample location : Bore Well Water at Ramgad Reservoir
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 18.10.2022
7. Analysis Starting Date : 19.10.2022
8. Analysis completion Date : 22.10.2022
9. Sample Tested as Received

S.No	Parameters	Protocol	Unit	Result	IS 10500-2012	
					Acceptable limit	Permissible limit
Chemical parameters						
17	Copper	IS: 3025(part-42)	mg/l	0.004	0.05	1.5
18	Manganese	IS: 3025(part-59)	mg/l	0.002	0.1	0.3
19	Mercury	IS:3025(part-48)/mercury analyser	mg/l	0.003	0.001	No Relaxation
20	Cadmium	IS: 3025(part-41)	mg/l	0.003	0.01	No Relaxation
21	Lead	IS: 3025(part-47)	mg/l	0.001	0.05	No Relaxation
22	Chromium	IS: 3025(part-52)	mg/l	0.005	0.05	No Relaxation
23	Selenium	IS: 3025(part-56)	mg/l	BDL	0.01	No Relaxation
24	Zinc	IS: 3025(part-49)	mg/l	BDL	5	15

INFERENCE	IS 10500 - 2012 Standards BDL - Below Detectable Limit Report Status: - The analyzed values for above measured parameters are within the Permissible limits.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2022/10277

Report Issued Date : 21.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Name of the Location** : Near ARC Furnace
- Particulars of the sample collected** : Sample collected with High Volume Sampler
- Date of Sample Receipt** : 15.10.2022
- Analysis Starting Date** : 18.10.2022
- Analysis Completion Date** : 21.10.2022
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	792.1	787.2	780.5	µg / m ³	786.6	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	17.4	20.12	24.46	µg / m ³	20.7	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	25.49	26.9	28.10	µg / m ³	26.8	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.71	0.025	0.022	µg / m ³	0.03	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	554	576	581	µg / m ³	570.3	5000

INFERENCE

Standards as per GSR277 (E)

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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2022/10276

Report Issued Date : 21.10.2022

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. Sample Collected By : MSV Analytical Laboratories, Bellary.
3. Name of the Location : Near Power Plant
4. Particulars of the sample collected : Sample collected with High Volume Sampler
5. Date of Sample Receipt : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	585.8	580.8	573.6	µg / m ³	580.1	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	22.39	24.13	17.77	µg / m ³	21.4	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	24.29	20.99	23.14	µg / m ³	22.8	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.035	0.034	0.036	µg / m ³	0.02	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	545	543.4	546.2	µg / m ³	544.9	5000

INFERENCE	Standards as per GSR277 (E) Report Status: - The analyzed values for above measured parameter are within the limits.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2022/10277

Report Issued Date : 21.10.2022

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. Sample Collected By : MSV Analytical Laboratories, Bellary.
3. Name of the Location : Near Coal Shed Area
4. Particulars of the sample collected : Sample collected with High Volume Sampler
5. Date of Sample Receipt : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	861.9	856.9	851.9	µg / m ³	856.9	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	18.64	14.85	18.97	µg / m ³	17.5	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	27.0	22.33	24.18	µg / m ³	24.5	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.031	0.035	0.038	µg / m ³	0.02	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	382.1	385	381.1	µg / m ³	382.7	5000

INFERENCE	Standards as per GSR277 (E) Report Status: - The analyzed values for above measured parameter are within the limits.
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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2022/10273

Report Issued Date : 21.10.2022

- Name of the Industry** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Name of the Location** : Near Coke Oven Plant
- Particulars of the sample collected** : Sample collected with High Volume Sampler
- Date of Sample Receipt** : 15.10.2022
- Analysis Starting Date** : 18.10.2022
- Analysis Completion Date** : 21.10.2022
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	665.3	660.2	655.9	$\mu\text{g} / \text{m}^3$	660.5	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	11.72	12.77	8.93	$\mu\text{g} / \text{m}^3$	11.1	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.90	12.9	14.0	$\mu\text{g} / \text{m}^3$	14.3	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.025	0.030	0.022	$\mu\text{g} / \text{m}^3$	0.02	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	515	524	512	$\mu\text{g} / \text{m}^3$	517.0	5000

INFERENCE	Standards as per GSR277 (E) Report Status: - The analyzed values for above measured parameter are within the limits.
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1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing. 4. Total liability of our laboratory is limited to the 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 FUGITIVE EMISSION

Test Report No : MSVAL/2022/10275

Report Issued Date : 21.10.2022

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. Sample Collected By : MSV Analytical Laboratories, Bellary.
3. Name of the Location : Near Main Gate
4. Particulars of the sample collected : Sample collected with High Volume Sampler
5. Date of Sample Receipt : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	375.6	370.6	365.5	$\mu\text{g} / \text{m}^3$	370.6	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	13.12	15.43	8.93	$\mu\text{g} / \text{m}^3$	12.5	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.65	13.8	14.50	$\mu\text{g} / \text{m}^3$	14.3	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.025	0.019	0.018	$\mu\text{g} / \text{m}^3$	0.02	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/ 007	645	642	639	$\mu\text{g} / \text{m}^3$	642.0	5000

INFERENCE

Standards as per GSR277 (E)

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

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:- END OF REPORT:-



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MSVAL/A/F/16/03

ANALYSIS REPORT OF FUGITIVE EMISSION

Test Report No : MSVAL/2022/10274

Report Issued Date : 21.10.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village, Hospet Taluk,
Bellary District, Karnataka.
2. Sample Collected By : MSV Analytical Laboratories, Bellary.
3. Name of the Location : Near iron Ore Beneficiation Plant
4. Particulars of the sample collected : Sample collected with High Volume Sampler
5. Date of Sample Receipt : 15.10.2022
6. Analysis Starting Date : 18.10.2022
7. Analysis Completion Date : 21.10.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Standards Max Limit GSR277 (E)
			1	2	3			
1	Suspended Particulate Matter	IS-5182(Part-4) -2017	775.5	770.6	768.6	$\mu\text{g} / \text{m}^3$	771.6	3000
2	Sulphur Dioxide as SO ₂	CPCB Procedure	7.92	7.5	7.31	$\mu\text{g} / \text{m}^3$	7.6	150
3	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	11.24	8.23	8.50	$\mu\text{g} / \text{m}^3$	9.3	120
4	Lead as Pb	IS-5182 (Part22) - 2004	0.025	0.024	0.029	$\mu\text{g} / \text{m}^3$	0.02	2
5	Carbon Monoxide as CO	MSVAL/SOP/A/007	435	446	449	$\mu\text{g} / \text{m}^3$	443.3	5000

INFERENCE

Standards as per GSR277 (E)

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

Verified by

Authorized Signature

