



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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017735F

Report Issued Date: 06.09.2022

- 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** : 01.09.2022
- Analysis Starting Date** : 02.09.2022
- Analysis Completion Date** : 06.09.2022
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	56.4	55.7	54.2	µg / m ³	55.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	29.2	17.4	16.6	µg / m ³	21.1	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	9.3	8.8	µg / m ³	9.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.8	15.8	15.2	µg / m ³	15.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	8.8	8.4	µg / m ³	8.8	100
6	Lead	IS-5182(Part22) - 2004	0.032	0.027	0.022	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.34	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	1.28	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
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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, Ballari - 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/2022/8914

Report Issued Date: 06.09.2022

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 : 01.09.2022
6. Analysis Starting Date : 02.09.2022
7. Analysis Completion Date : 06.09.2022
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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Authorized Signature

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E-mail : msvballary2018@gmail.com, labmsv@gmail.com, Website : www.msvballary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017736F

Report Issued Date: 06.09.2022

- 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 : 01.09.2022
- Analysis Starting Date : 02.09.2022
- Analysis Completion Date : 06.09.2022
- 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	55.6	54.2	µg / m ³	55.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.4	18.7	18.1	µg / m ³	18.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.3	9.4	9.1	µg / m ³	9.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.2	15.9	15.3	µg / m ³	16.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.7	10.4	10.1	µg / m ³	10.4	100
6	Lead	IS-5182(Part22) - 2004	0.027	0.024	0.020	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.35	0.32	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	1.21	1.18	1.14	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/2022/8915

Report Issued Date: 06.09.2022

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 : 01.09.2022
6. Analysis Starting Date : 02.09.2022
7. Analysis Completion Date : 06.09.2022
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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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: TC720722000017737F

Report Issued Date: 06.09.2022

- 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 : 01.09.2022
- Analysis Starting Date : 02.09.2022
- Analysis Completion Date : 06.09.2022
- 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	51.5	50.8	50.1	µg / m ³	50.8	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.8	16.2	15.7	µg / m ³	16.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.0	7.5	6.5	µg / m ³	7.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.2	13.2	12.2	µg / m ³	13.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.8	8.3	7.8	µg / m ³	8.3	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.020	0.015	µg / m ³	0.0	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	1.28	1.24	1.20	ng / m ³	1.2	20

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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/2022/8916

Report Issued Date: 06.09.2022

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Vysanakere Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 01.09.2022
- Analysis Starting Date** : 02.09.2022
- Analysis Completion Date** : 06.09.2022
- 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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017738F

Report Issued Date: 06.09.2022

- 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** : 01.09.2022
- Analysis Starting Date** : 02.09.2022
- Analysis Completion Date** : 06.09.2022
- 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	55.1	54.2	µg / m ³	55.0	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	15.2	14.7	13.6	µg / m ³	14.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.6	7.5	6.9	µg / m ³	7.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.4	14.2	13.2	µg / m ³	14.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.4	8.0	7.6	µg / m ³	8.0	100
6	Lead	IS-5182(Part22) - 2004	0.042	0.038	0.034	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.25	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	1.30	1.25	1.20	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

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/ 8917

Report Issued Date: 06.09.2022

- 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** : 01.09.2022
- Analysis Starting Date** : 02.09.2022
- Analysis Completion Date** : 06.09.2022
- 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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Verified by

End of The Report:-



Authorized Signature

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017678F

Report Issued Date: 10.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Smiore Colony
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 06.09.2022
6. Analysis Starting Date : 07.09.2022
7. Analysis Completion Date : 10.09.2022
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	56.1	57.6	58.4	µg / m ³	57.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.5	19.6	20.5	µg / m ³	19.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.1	10.8	11.9	µg / m ³	10.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.5	14.6	15.7	µg / m ³	14.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	9.4	9.6	µg / m ³	9.4	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.025	0.023	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.40	0.36	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	1.29	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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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.
3. This report is not to be reproduced wholly or in part & cannot be used as evidence in the court of law & should not be used in any advertising media without our special permission in writing.
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Sanganakallu Road, KEB Circle, Bellary-583103. Contact No : Mob : 94498 03895, (O) : 08392-255169,
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/2022/9092

Report Issued Date: 10.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Smiore Colony
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 06.09.2022
6. Analysis Starting Date : 07.09.2022
7. Analysis Completion Date : 10.09.2022
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



Authorized Signature

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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



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017679F

Report Issued Date: 10.09.2022

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 06.09.2022
- Analysis Starting Date** : 07.09.2022
- Analysis Completion Date** : 10.09.2022
- 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	52.1	53.6	54.6	µg / m ³	53.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.3	17.2	18.5	µg / m ³	17.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.7	8.1	8.8	µg / m ³	8.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.2	15.8	16.4	µg / m ³	15.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.2	9.1	9.4	µg / m ³	9.2	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.027	0.025	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.50	0.46	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	1.38	1.39	1.40	ng / m ³	1.4	20

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

Verified by



Authorized Signature

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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/2022/9094

Report Issued Date: 10.09.2022

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 : 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 : 06.09.2022
6. Analysis Starting Date : 07.09.2022
7. Analysis Completion Date : 10.09.2022
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



Authorized Signature

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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: TC720722000017680F

Report Issued Date: 10.09.2022

- 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 : 06.09.2022
- Analysis Starting Date : 07.09.2022
- Analysis Completion Date : 10.09.2022
- Sample Tested as Received

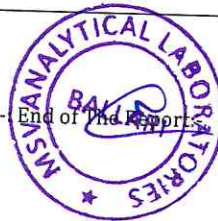
S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	54.2	55.6	56.2	µg / m ³	55.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.2	22.5	23.6	µg / m ³	22.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.5	10.5	10.8	µg / m ³	10.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	10.5	11.5	11.6	µg / m ³	11.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.5	7.7	7.9	µg / m ³	7.7	100
6	Lead	IS-5182(Part22) - 2004	0.018	0.017	0.016	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.20	0.22	0.18	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	1.21	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

Verified by



Authorized Signature

- 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/2022/9095

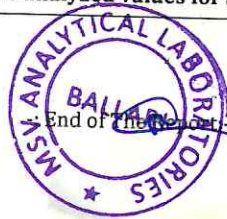
Report Issued Date: 10.09.2022

- 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** : 06.09.2022
- Analysis Starting Date** : 07.09.2022
- Analysis Completion Date** : 10.09.2022
- 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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Verified by



Authorized Signature

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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: TC720722000017681F

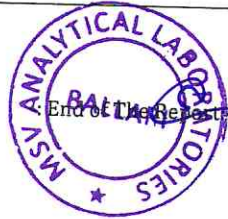
Report Issued Date: 10.09.2022

- 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 : 06.09.2022
- Analysis Starting Date : 07.09.2022
- Analysis Completion Date : 10.09.2022
- 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	56.3	57.8	µg / m ³	56.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.5	19.5	20.1	µg / m ³	19.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	6.7	7.5	7.8	µg / m ³	7.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.8	16.4	16.9	µg / m ³	16.4	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.1	8.3	8.5	µg / m ³	8.3	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.025	0.024	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.38	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	1.27	1.26	1.25	ng / m ³	1.3	20

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

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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/2022/9093

Report Issued Date: 10.09.2022

- 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 : 06.09.2022
- Analysis Starting Date : 07.09.2022
- Analysis Completion Date : 10.09.2022
- 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



Authorized Signature

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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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017820F

Report Issued Date: 14.09.2022

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 09.09.2022
- Analysis Starting Date** : 10.09.2022
- Analysis Completion Date** : 14.09.2022
- 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	53.8	60.2	61.9	µg / m ³	58.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.6	21.4	20.3	µg / m ³	21.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	12.2	11.6	µg / m ³	11.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.3	16.8	15.9	µg / m ³	16.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.6	12.3	13.4	µg / m ³	12.1	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.036	0.042	µg / m ³	0.034	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.46	0.52	mg / m ³	0.45	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.26	1.48	1.34	ng / m ³	1.36	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.
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/2022/9161

Report Issued Date: 14.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Smiore Colony
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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: TC720722000017821F

Report Issued Date: 14.09.2022

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 : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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	63.8	64.6	62.9	µg / m ³	63.8	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.3	21.6	24.8	µg / m ³	22.9	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.6	12.2	11.6	µg / m ³	11.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	14.8	12.6	13.8	µg / m ³	13.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.2	13.8	14.2	µg / m ³	12.7	100
6	Lead	IS-5182(Part22) - 2004	0.018	0.029	0.032	µg / m ³	0.026	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.24	0.30	mg / m ³	0.27	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.42	1.36	1.02	ng / m ³	1.27	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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- 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/2022/9162

Report Issued Date: 14.09.2022

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 : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017822F

Report Issued Date: 14.09.2022

- Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location : Vysanakere Village
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample :
- Date of Sample Receipt : 09.09.2022
- Analysis Starting Date : 10.09.2022
- Analysis Completion Date : 14.09.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	54.3	55.6	51.2	µg / m ³	53.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.8	17.2	15.9	µg / m ³	16.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.8	8.6	10.2	µg / m ³	9.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	12.2	14.2	13.6	µg / m ³	13.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	5.6	3.8	4.2	µg / m ³	4.5	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.038	.041	µg / m ³	0.035	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.38	0.22	mg / m ³	0.29	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.28	1.02	ng / m ³	1.22	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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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/2022/9163

Report Issued Date: 14.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Vysanakere Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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: TC720722000017823F

Report Issued Date: 14.09.2022

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 : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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	48.9	51.4	53.7	µg / m ³	51.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	17.2	16.8	19.4	µg / m ³	17.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.2	12.2	9.8	µg / m ³	10.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.4	15.8	16.2	µg / m ³	15.1	80
5	Ozone as O ₃	IS 5182(part-9)1974	6.3	4.8	5.2	µg / m ³	5.4	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.034	0.018	µg / m ³	0.026	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.28	0.42	mg / m ³	0.35	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.22	1.48	ng / m ³	1.35	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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- 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/2022/9164

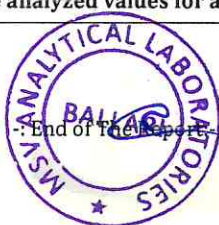
Report Issued Date: 14.09.2022

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 : 09.09.2022
6. Analysis Starting Date : 10.09.2022
7. Analysis Completion Date : 14.09.2022
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: TC720722000017977F

Report Issued Date: 17.09.2022

- 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** : 13.09.2022
- Analysis Starting Date** : 14.09.2022
- Analysis Completion Date** : 17.09.2022
- 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	59.6	60.2	µg / m ³	59.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	25.6	26.3	27.8	µg / m ³	26.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.4	9.8	10.8	µg / m ³	10.0	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.2	18.8	19.4	µg / m ³	18.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	13.5	13.2	13.4	µg / m ³	13.4	100
6	Lead	IS-5182(Part22) - 2004	0.026	0.027	0.028	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.22	0.24	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	1.34	1.35	1.33	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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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/2022/9333

Report Issued Date: 17.09.2022

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 : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
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 1 month from the date of test certificate issue. 3. This report is not to be reproduced wholly or in part without the written permission of the laboratory. 4. Total liability of our laboratory is limited to the amount of the fee charged. 5. Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with * 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 : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000017978F

Report Issued Date: 17.09.2022

- 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 : 13.09.2022
- Analysis Starting Date : 14.09.2022
- Analysis Completion Date : 17.09.2022
- 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	52.3	53.6	54.2	µg / m ³	53.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	18.2	19.6	20.5	µg / m ³	19.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.8	8.4	8.8	µg / m ³	8.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.6	16.4	17.5	µg / m ³	16.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.6	9.5	9.2	µg / m ³	9.1	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.025	0.023	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.32	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	1.90	1.92	1.91	ng / m ³	1.9	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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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/2022/9334

Report Issued Date: 17.09.2022

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 : 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 : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
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



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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: TC720722000017979F

Report Issued Date: 17.09.2022

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 : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	59.2	60.5	58.9	µg / m ³	59.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.6	24.6	22.6	µg / m ³	23.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.4	8.8	9.4	µg / m ³	8.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.6	18.2	18.8	µg / m ³	18.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.2	7.4	7.6	µg / m ³	7.4	100
6	Lead	IS-5182(Part22) - 2004	0.028	0.030	0.024	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.30	0.32	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	1.38	1.39	1.40	ng / m ³	1.4	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,
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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/2022/9335

Report Issued Date: 17.09.2022

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 : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
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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(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: TC720722000017980F

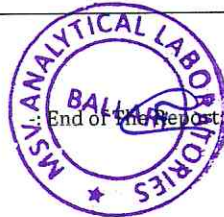
Report Issued Date: 17.09.2022

- 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** : 13.09.2022
- Analysis Starting Date** : 14.09.2022
- Analysis Completion Date** : 17.09.2022
- 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	59.3	60.3	61.5	µg / m ³	60.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.6	24.5	25.9	µg / m ³	24.7	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.8	9.4	9.8	µg / m ³	9.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.5	17.6	18.2	µg / m ³	17.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.6	10.2	10.4	µg / m ³	10.4	100
6	Lead	IS-5182(Part22) - 2004	0.023	0.025	0.022	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.30	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	1.24	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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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/2022/9336

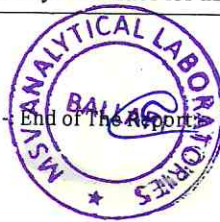
Report Issued Date: 17.09.2022

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 : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
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



Authorized Signature

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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



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018108F

Report Issued Date: 21.09.2022

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Smiore Colony
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 16.09.2022
- Analysis Starting Date** : 17.09.2022
- Analysis Completion Date** : 21.09.2022
- 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	57.3	59.6	µg / m ³	58.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	31.2	32.5	33.5	µg / m ³	32.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.5	10.8	11.2	µg / m ³	10.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.6	18.2	18.7	µg / m ³	18.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	10.5	10.6	µg / m ³	10.3	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.027	0.026	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.26	0.22	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	1.26	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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Verified by



Authorized Signature

End of the Report

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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9416

Report Issued Date: 21.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Smiore Colony
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 21.09.2022
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



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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: TC720722000018109F

Report Issued Date: 21.09.2022

- 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** : 16.09.2022
- Analysis Starting Date** : 17.09.2022
- Analysis Completion Date** : 21.09.2022
- 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	52.3	53.6	54.6	µg / m ³	53.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	17.6	18.6	19.5	µg / m ³	18.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	7.8	8.4	8.8	µg / m ³	8.3	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.1	17.6	18.2	µg / m ³	17.6	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.6	8.8	9.6	µg / m ³	9.0	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.025	0.023	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.24	0.26	0.22	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	1.43	1.44	1.42	ng / m ³	1.4	20

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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9517

Report Issued Date: 21.09.2022

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 : Kallahalli Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 21.09.2022
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 : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018110F

Report Issued Date: 21.09.2022

- Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location : Vysanakere Village
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample :
- Date of Sample Receipt : 16.09.2022
- Analysis Starting Date : 17.09.2022
- Analysis Completion Date : 21.09.2022
- 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	60.2	61.5	µg / m ³	60.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.5	22.5	23.6	µg / m ³	23.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.2	8.7	9.1	µg / m ³	8.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	17.6	18.2	18.8	µg / m ³	18.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.4	7.2	6.8	µg / m ³	7.1	100
6	Lead	IS-5182(Part22) - 2004	0.028	0.027	0.0296	µg / m ³	0.0	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.30	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	1.32	1.30	1.31	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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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/2022/9518

Report Issued Date: 21.09.2022

1. Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the location : Vysanakere Village
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
5. Date of Sample Receipt : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 21.09.2022
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 : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018111F

Report Issued Date: 21.09.2022

- Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location : Gunda Village
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt : 16.09.2022
- Analysis Starting Date : 17.09.2022
- Analysis Completion Date : 21.09.2022
- 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	59.6	58.2	59.6	µg / m ³	59.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.5	22.5	22.8	µg / m ³	22.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	8.7	9.1	9.8	µg / m ³	9.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.9	17.6	18.5	µg / m ³	17.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.8	9.6	9.2	µg / m ³	9.2	100
6	Lead	IS-5182(Part22) - 2004	0.025	0.026	0.024	µg / m ³	0.2	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.28	0.30	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	1.25	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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- ote: 1. The results listed only to the tested samples & applicable parameters,
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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/2022/9519

Report Issued Date: 21.09.2022

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 : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 21.09.2022
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: TC720722000018241F

Report Issued Date: 24.09.2022

- 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** : 19.09.2022
- Analysis Starting Date** : 20.09.2022
- Analysis Completion Date** : 24.09.2022
- 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	63.8	59.6	61.2	µg / m ³	61.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.3	21.3	20.4	µg / m ³	21.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	13.8	12.2	11.6	µg / m ³	12.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.8	17.6	16.4	µg / m ³	16.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.2	13.4	13.0	µg / m ³	12.9	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.048	0.052	µg / m ³	0.046	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.36	0.42	mg / m ³	0.42	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.42	1.22	ng / m ³	1.33	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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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/2022/9499

Report Issued Date: 24.09.2022

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 : 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 : 19.09.2022
6. Analysis Starting Date : 20.09.2022
7. Analysis Completion Date : 24.09.2022
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: TC720722000018242F

Report Issued Date: 24.09.2022

- 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** : 19.09.2022
- Analysis Starting Date** : 20.09.2022
- Analysis Completion Date** : 24.09.2022
- Sample Tested as Received**

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	56.4	62.3	61.4	µg / m ³	60.0	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.2	21.4	22.0	µg / m ³	21.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.6	11.6	12.0	µg / m ³	11.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.4	15.8	17.2	µg / m ³	16.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	13.4	12.2	10.6	µg / m ³	12.1	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.048	.037	µg / m ³	0.040	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.52	0.36	0.42	mg / m ³	0.43	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	1.36	1.25	1.14	ng / m ³	1.25	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9500

Report Issued Date: 24.09.2022

- Name of the Project** : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location** : Kallahalli Village
- Sample Collected By** : MSV Analytical Laboratories, Bellary.
- Particulars of the sample** : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt** : 19.09.2022
- Analysis Starting Date** : 20.09.2022
- Analysis Completion Date** : 24.09.2022
- 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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Verified by



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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018243F

Report Issued Date: 24.09.2022

- 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 : 19.09.2022
- Analysis Starting Date : 20.09.2022
- Analysis Completion Date : 24.09.2022
- 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	56.6	61.4	63.8	µg / m ³	60.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	21.4	22.6	23.7	µg / m ³	22.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	15.7	14.2	13.8	µg / m ³	14.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	18.8	17.6	17.2	µg / m ³	17.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	10.4	11.6	µg / m ³	10.6	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.048	0.038	µg / m ³	0.041	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.46	0.48	mg / m ³	0.44	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.42	1.22	ng / m ³	1.33	20

INFERENCE

As per NAAQS Standards

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

Verified by



Authorized Signature

--: End of the Report

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



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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/2022/9501

Report Issued Date: 24.09.2022

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 : 19.09.2022
6. Analysis Starting Date : 20.09.2022
7. Analysis Completion Date : 24.09.2022
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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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 a star 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: TC720722000018244F

Report Issued Date: 24.09.2022

- 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 : 19.09.2022
- Analysis Starting Date : 20.09.2022
- Analysis Completion Date : 24.09.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	58.6	63.8	53.7	µg / m ³	58.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.8	19.9	20.6	µg / m ³	21.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	12.2	10.6	13.4	µg / m ³	12.1	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	16.6	17.2	15.8	µg / m ³	16.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.6	8.8	9.4	µg / m ³	8.6	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.047	0.038	µg / m ³	0.041	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.38	0.66	0.42	mg / m ³	0.49	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	1.14	1.36	ng / m ³	1.24	20

INFERENCE

As per NAAQS Standards

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

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Authorized Signature

- Note :
- The results listed only to the tested samples & applicable parameters,
 - Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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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/2022/9502

Report Issued Date: 24.09.2022

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 : 19.09.2022
6. Analysis Starting Date : 20.09.2022
7. Analysis Completion Date : 24.09.2022
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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018438F

Report Issued Date: 27.09.2022

- 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** : 22.09.2022
- Analysis Starting Date** : 23.09.2022
- Analysis Completion Date** : 27.09.2022
- 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	55.8	54.7	µg / m ³	55.7	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	20.8	20.1	19.6	µg / m ³	20.2	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.6	9.5	9.1	µg / m ³	9.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.8	18.8	18.1	µg / m ³	18.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	11.3	10.8	12.2	µg / m ³	11.4	100
6	Lead	IS-5182(Part22) - 2004	0.048	0.028	0.023	µg / m ³	0.033	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.40	0.28	0.32	mg / m ³	0.33	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	#DIV/0!	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.17	1.25	1.04	ng / m ³	1.15	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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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/2022/9598

Report Issued Date: 27.09.2022

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 : 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 : 22.09.2022
6. Analysis Starting Date : 23.09.2022
7. Analysis Completion Date : 27.09.2022
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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018440F

Report Issued Date: 27.09.2022

- 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** : 22.09.2022
- Analysis Starting Date** : 23.09.2022
- Analysis Completion Date** : 27.09.2022
- 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	56.0	55.3	54.7	µg / m ³	55.3	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	17.1	16.7	16.0	µg / m ³	16.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	9.0	8.2	7.5	µg / m ³	8.2	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	13.3	12.3	11.8	µg / m ³	12.5	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.4	12.0	11.6	µg / m ³	12.0	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.042	0.018	µg / m ³	0.032	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.26	0.42	mg / m ³	0.39	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	#DIV/0!	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.26	1.38	1.56	ng / m ³	1.40	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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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com Website : www.msvalbellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9600

Report Issued Date: 27.09.2022

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 : 22.09.2022
6. Analysis Starting Date : 23.09.2022
7. Analysis Completion Date : 27.09.2022
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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- 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: TC720722000018441F

Report Issued Date: 27.09.2022

- 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 : 22.09.2022
- Analysis Starting Date : 23.09.2022
- Analysis Completion Date : 27.09.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	54.5	53.7	52.6	µg / m ³	53.6	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	16.1	15.5	14.8	µg / m ³	15.5	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	10.4	9.5	8.9	µg / m ³	9.6	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.7	14.6	14.0	µg / m ³	14.8	80
5	Ozone as O ₃	IS 5182(part-9)1974	9.8	10.6	12.2	µg / m ³	10.9	100
6	Lead	IS-5182(Part22) - 2004	0.024	0.026	0.034	µg / m ³	0.028	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.18	0.22	mg / m ³	0.25	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	#DIV/0!	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.42	1.36	1.25	ng / m ³	1.34	20

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

Verified by



Authorized Signature

- Note:
- The results listed only to the tested samples & applicable parameters,
 - 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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 - Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
 - Sampling is not done by us unless otherwise specified. 6. The tests and/or calibrations marked with an asterisk 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 : 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/2022/9601

Report Issued Date: 27.09.2022

- 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** : 22.09.2022
- Analysis Starting Date** : 23.09.2022
- Analysis Completion Date** : 27.09.2022
- 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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Verified by



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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Sanganakallu Road, KEB Circle, Ballari - 583103 **Contact No** : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, **Website** : www.msvbellary.com



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Report Issued Date: 27.09.2022

Test Report No: TC720722000018439F

- 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 : 22.09.2022
- Analysis Starting Date : 23.09.2022
- Analysis Completion Date : 27.09.2022
- 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	53.6	52.4	µg / m ³	53.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	19.6	19.0	18.5	µg / m ³	19.0	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	6.1	6.9	6.55	µg / m ³	6.5	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	15.8	14.8	14.2	µg / m ³	14.9	80
5	Ozone as O ₃	IS 5182(part-9)1974	8.3	7.8	7.4	µg / m ³	7.8	100
6	Lead	IS-5182(Part22) - 2004	0.027	0.024	0.019	µg / m ³	0.023	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.24	0.18	mg / m ³	0.26	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	#DIV/0!	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.24	1.52	ng / m ³	1.37	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,
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,

E-mail : msvallabellary2018@gmail.com, labmsv@gmail.com, Website : www.msvallabellary.com



TC-7207

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9599

Report Issued Date: 27.09.2022

- 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 : 22.09.2022
- Analysis Starting Date : 23.09.2022
- Analysis Completion Date : 27.09.2022
- 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: TC720722000018646F

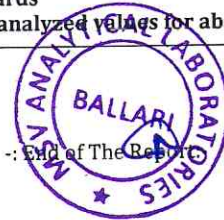
Report Issued Date: 30.09.2022

- 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 : 26.09.2022
- Analysis Starting Date : 27.09.2022
- Analysis Completion Date : 30.09.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	62.4	59.6	56.2	µg / m ³	59.4	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	28.6	25.4	20.5	µg / m ³	24.8	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	18.0	16.6	15.5	µg / m ³	16.7	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	21.0	19.1	16.0	µg / m ³	18.7	80
5	Ozone as O ₃	IS 5182(part-9)1974	10.6	12.4	11.8	µg / m ³	11.6	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.024	0.042	µg / m ³	0.035	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.26	0.38	0.50	mg / m ³	0.38	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.24	1.48	ng / m ³	1.36	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

:- End of The Report

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

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: MSVAL/2022/9717

Report Issued Date: 30.09.2022

- Name of the Project : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vysanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Name of the location : Smiore Colony
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of the sample : Sample collected with RDS APM460 and FDS GTI-131
- Date of Sample Receipt : 26.09.2022
- Analysis Starting Date : 27.09.2022
- Analysis Completion Date : 30.09.2022
- 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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Verified by

End of The Report



Authorized Signature

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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: TC720722000018648F

Report Issued Date: 30.09.2022

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 : 26.09.2022
6. Analysis Starting Date : 27.09.2022
7. Analysis Completion Date : 30.09.2022
8. Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	60.8	57.6	52.8	µg / m ³	57.1	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	23.3	20.4	17.5	µg / m ³	20.4	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	15.3	14.8	14.5	µg / m ³	14.9	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	19.8	16.7	15.4	µg / m ³	17.3	80
5	Ozone as O ₃	IS 5182(part-9)1974	7.4	7.2	7.0	µg / m ³	7.2	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.027	0.054	µg / m ³	0.039	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.36	0.42	0.28	mg / m ³	0.35	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.02	0.97	1.04	ng / m ³	1.01	20

INFERENCE

As per NAAQS Standards

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

Verified by



Authorized Signature

:- End of Report :-

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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/2022/9719

Report Issued Date: 30.09.2022

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 : 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 : 26.09.2022
6. Analysis Starting Date : 27.09.2022
7. Analysis Completion Date : 30.09.2022
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: TC720722000018647F

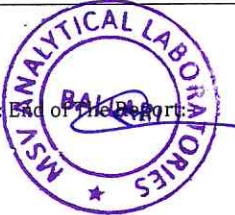
Report Issued Date: 30.09.2022

- 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 : 26.09.2022
- Analysis Starting Date : 27.09.2022
- Analysis Completion Date : 30.09.2022
- 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	63.4	60.8	57.4	µg / m ³	60.5	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	22.7	19.6	16.6	µg / m ³	19.6	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	14.2	13.8	13.4	µg / m ³	13.8	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	20.8	17.9	15.4	µg / m ³	18.0	80
5	Ozone as O ₃	IS 5182(part-9)1974	12.2	10.6	13.4	µg / m ³	12.1	100
6	Lead	IS-5182(Part22) - 2004	0.038	0.047	0.026	µg / m ³	0.037	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.52	0.46	mg / m ³	0.49	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	1.62	1.02	0.97	ng / m ³	1.20	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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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/2022/9718

Report Issued Date: 30.09.2022

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 : 26.09.2022
6. Analysis Starting Date : 27.09.2022
7. Analysis Completion Date : 30.09.2022
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



MSV Analytical Laboratories

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



MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

Test Report No: TC720722000018649F

Report Issued Date: 30.09.2022

- 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 : 26.09.2022
- Analysis Starting Date : 27.09.2022
- Analysis Completion Date : 30.09.2022
- Sample Tested as Received

S.No	Parameter	Protocols	Shift wise results			Units	Result in Avg.	Tolerance limits
			1	2	3			
1	Particulate Matter PM ₁₀ µg/m ³	IS-5182(Part-23) - 2006	60.4	57.6	52.8	µg / m ³	56.9	100
2	Particulate Matter or PM _{2.5} µg/m ³	LAB SOP MSVAL/SOP/A/005	24.6	20.8	18.4	µg / m ³	21.3	60
3	Sulphur Dioxide as SO _x	IS-5182(Part-2) - 2001	16.9	15.2	14.2	µg / m ³	15.4	80
4	Oxides of Nitrogen as NO _x	IS-5182(Part-6) - 2006	21.4	17.8	15.3	µg / m ³	18.2	80
5	Ozone as O ₃	IS 5182(part-9)1974	15.6	14.8	13.6	µg / m ³	14.7	100
6	Lead	IS-5182(Part22) - 2004	0.036	0.028	0.016	µg / m ³	0.027	1
7	Carbon Monoxide as CO	LAB SOP MSVAL/SOP/A/007	0.48	0.52	0.36	mg / m ³	12.33	2
8	Ammonia as NH ₃	LAB SOP MSVAL/SOP/A/006	<0.01	<0.01	<0.01	µg / m ³	<0.01	400
9	Nickel as Ni	LAB SOP MSVAL/SOP/A/008	1.36	1.27	1.09	ng / m ³	1.24	20

INFERENCE	As per NAAQS Standards Report Status :- The analyzed values for above measured parameter are within the limits
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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/2022/9720

Report Issued Date: 30.09.2022

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 : 26.09.2022
6. Analysis Starting Date : 27.09.2022
7. Analysis Completion Date : 30.09.2022
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/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000018347F

Report Issued Date : 27.09.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke 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 : 21.09.2022
6. Analysis Starting Date : 22.09.2022
7. Analysis Completion Date : 27.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	21.09.2022
Fuel Used	---
Stack Temperature (°C)	68
Velocity (m/s)	6.9
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	36.8	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	12.6	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	16.9	500
Carbon Monoxide as(CO)	IS 13270	%	0.46	Max 1%

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



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000018346F

Report Issued Date: 27.09.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke Cutter
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 21.09.2022
6. Analysis Starting Date : 22.09.2022
7. Analysis Completion Date : 27.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	21.09.2022
Fuel Used	---
Stack Temperature (°C)	73
Velocity (m/s)	6.8
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	36.8	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	13.6	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	16.9	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.

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:- END OF REPORT :-

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



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000017980F

Report Issued Date : 27.09.2022

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. Stack ID : Coal Crushing Area
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	13.09.2022
Fuel Used	---
Stack Temperature (°C)	41
Velocity (m/s)	6.4
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	32.6	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	15.2	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	20.4	500
Carbon Monoxide as(CO)	IS 13270	%	0.14	Max 1%

INFERENCE	As per KSPCB Standards Report Status :- The analyzed value for above measured parameter is within the limits.
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E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000018345F

Report Issued Date: 27.09.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : 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 : 21.09.2022
6. Analysis Starting Date : 22.09.2022
7. Analysis Completion Date : 27.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	21.09.2022
Fuel Used	Diesel
Stack Temperature (°C)	97
Velocity (m/s)	6.8
Height (m)	15mtrs AGL
Diameter (m)	0.3
Cross sectional area (m ²)	0.07065

RESULTS

Parameters	Protocol	Unit	Result	KSPCB Consent Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	43.8	100
Sulphur dioxide	IS-11255(Part2) - 1985	PPM	17.6	50
Nitrogen dioxide	IS-11255(Part7) - 2005	PPM	20.6	50

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

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Authorized Signature



END OF REPORT

1. The results listed only to the tested samples & applicable parameters,
2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 1 month from the date of test certificate issue.
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Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msvalbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TTC720722000018282F

Report Issued Date : 27.09.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Stack ID : Coke Oven Battery - Passes Through WHRB-1
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 23.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	16.09.2022
Fuel Used	----
Stack Temperature (°C)	81
Velocity (m/s)	6.9
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	42.2	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	18.8	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	21.4	500
Carbon Monoxide as(CO)	IS 13270	%	0.36	Max 1%

INFERENCE	As per GSR 277 (E) Standards. Report Status :- The analyzed value for above measured parameter is within the limits.
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- Note : 1. The results listed only to the tested samples & applicable parameters,
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E-mail : msvallbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvallbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000017981F

Report Issued Date: 27.09.2022

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. Stack ID : Ferro Alloy Arc Furnace
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 13.09.2022
6. Analysis Starting Date : 14.09.2022
7. Analysis Completion Date : 17.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	13.09.2022
Fuel Used	----
Stack Temperature (°C)	87
Velocity (m/s)	7.2
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	42.6	150

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



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:- END OF REPORT :-

- ote: 1. 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: TC720722000018281F

Report Issued Date : 27.09.2022

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. Stack ID : Coke Oven Battery - Passes Through WHRB-2
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 16.09.2022
6. Analysis Starting Date : 17.09.2022
7. Analysis Completion Date : 23.09.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	16.09.2022
Fuel Used	----
Stack Temperature (°C)	87
Velocity (m/s)	7.2
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	41.6	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	32.3	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	36.8	500
Carbon Monoxide as(CO)	IS 13270	%	0.48	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,
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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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(Certified by ISO 14001-2004, OHSAS18001-2007, ISO 9001-2008)

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

MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9382

Report Issued Date: 21.09.2022

- 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 : Surface water – Pond Water Ayyanahalli
- Sample Collected By : MSV Analytical Laboratories
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/Satisfactory
- Date of Sample Receipt : 14.09.2022
- Analysis Starting Date : 15.09.2022
- Analysis Completion date : 21.09.2022
- Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Physical parameters					
1	Taste	IS : 3025(part-7)	---	Agreeable	Agreeable
2	Color	IS : 3025(part-4)	---	<5	10
3	Odor	IS : 3025(part-5)	---	Un objectionable	Un objectionable
4	pH	IS : 3025(part-11)	---	7.26	6.5-8.5
5	Conductivity	IS-3025 (part 14)	µs/cm	778	---
Chemical parameters					
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	386	500
7	Calcium as Ca	IS : 3025(part-40)	mg/l	30.3	80.10
8	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	102.4	300
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	6.47	24.28
10	Oil & Grease	IS : 3025(part-39)	mg/l	Nil	---
11	Mineral Oil	APHA 23 rd EDITION - 5520 C	mg/l	Nil	0.01
12	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	26.8	400
13	Chloride as Cl	IS : 3025(part-32)	mg/l	112.9	250
14	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.03	20
15	Iron as Fe	IS : 3025(part-53)	mg/l	0.003	0.3
16	Fluoride as F	IS : 3025(part-60)	mg/l	0.18	1.50
17	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS 3025 (Part 44): 1993	mg/l	Nil	2
18	Dissolved Oxygen	IS 3025 (Part 38): 1993	mg/l	6.94	Min 6
19	Free CO ₂	LAB SOP	mg/l	Nil	---
20	Free Ammonia	LAB SOP	mg/l	Nil	---

INFERENCE

IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within limits.

Verified by

End of the Report

Authorized Signature

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will be destroyed after 10 days, Filler 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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MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9382		Report Issued Date: 21.09.2022
1. Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant) Vyasnakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
2. Name of the sample	:	Surface water - Pond Water Ayyanahalli
3. Sample Collected By	:	MSV Analytical Laboratories
4. Sample Quantity	:	2 Liters
5. Sample Description/condition	:	Good/Satisfactory
6. Date of Sample Receipt	:	14.09.2022
7. Analysis Starting Date	:	15.09.2022
8. Analysis Completion date	:	21.09.2022
9. Sample tested As Received	:	

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Chemical parameters					
21	Manganese as Mn	APHA 23 rd EDITION -3111 B	mg/l	0.026	0.5
22	Zinc as Zn	IS: 3025(part-49)	mg/l	0.024	15
23	Boron as B	APHA 23 rd EDITION -4500 B	mg/l	Nil	---
24	Barium as Ba	APHA 23 rd EDITION -3500 Ba	mg/l	0.002	1.0
25	Silver as Ag	APHA 23 rd EDITION -3500 Ag	mg/l	<0.001	0.05
26	Arsenic as As	APHA 23 rd EDITION -3112 B	mg/l	<0.002	0.05
27	Mercury as Hg	APHA 23 rd EDITION -3112 B	mg/l	<0.001	0.001
28	Lead as Pb	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.1
29	Cadmium as Cd	APHA 23 rd EDITION -3111 B	mg/l	<0.001	0.01
30	Chromium as Cr	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.05
31	Selenium as Se	APHA 23 rd EDITION -3500 B	mg/l	<0.001	0.01
32	Cyanide as CN	APHA 23 rd EDITION -4500 D	mg/l	Nil	0.05
33	Phenols	IS: 3025(part-43)	mg/l	Nil	0.002
34	Anionic Detergents as MBAS	IS : 13428-2005	mg/l	<0.1	0.2
35	Percent Sodium	LAB SOP	%	22.6	---
36	Sodium Absorption Ratio	LAB SOP	mg/l	13.2	---

INFERENCE IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within 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/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No: MSVAL/2022/9382

Report Issued Date: 21.09.2022

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 : Surface water – Pond Water Ayyanahalli
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 : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion Date : 21.09.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Total Coliform	IS 1622:1981	MPN/100 ml	18	50

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit 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.msvlabellary.com MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No : MSVAL/2022/ 9378

Report Issued Date: 21.09.2022

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 : Surface water - Tungabhadra Reservoir
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/Satisfactory
6. Date of Sample Receipt : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion date : 21.09.2022
9. Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Physical parameters					
1	Taste	IS : 3025(part-7)	---	Agreeable	Agreeable
2	Color	IS : 3025(part-4)	---	<1	10
3	Odor	IS : 3025(part-5)	---	Un objectionable	Un objectionable
4	pH	IS : 3025(part-11)	---	7.36	6.5-8.5
5	Conductivity	IS-3025 (part 14)	µs/cm	1326	---
Chemical parameters					
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	724	500
7	Calcium as Ca	IS : 3025(part-40)	mg/l	36.4	80.10
8	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	172.8	300
9	Magnesium as Mg	IS: 3025(part-46)	mg/l	19.8	24.28
10	Oil &Grease	IS : 3025(part-39)	mg/l	Nil	---
11	Mineral Oil	APHA 23 rd EDITION - 5520 C	mg/l	Nil	0.01
12	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	20.2	400
13	Chloride as Cl	IS : 3025(part-32)	mg/l	66.9	250
14	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	2.02	20
15	Iron as Fe	IS : 3025(part-53)	mg/l	0.06	0.3
16	Fluoride as F	IS : 3025(part-60)	mg/l	0.22	1.50
17	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS 3025 (Part 44): 1993	mg/l	Nil	2
18	Dissolved Oxygen	IS 3025 (Part 38): 1993	mg/l	6.74	Min 6
19	Free CO ₂	LAB SOP	mg/l	Nil	---
20	Free Ammonia	LAB SOP	mg/l	Nil	---

INFERENCE

IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within 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/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No : MSVAL/2022/9378

Report Issued Date: 21.09.2022

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 : Surface water - Tungabhadra Reservoir
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/Satisfactory
6. Date of Sample Receipt : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion date : 21.09.2022
9. Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Chemical parameters					
21	Manganese as Mn	APHA 23 rd EDITION -3111 B	mg/l	0.018	0.5
22	Zinc as Zn	IS: 3025(part-49)	mg/l	0.014	15
23	Boron as B	APHA 23 rd EDITION -4500 B	mg/l	Nil	---
24	Barium as Ba	APHA 23 rd EDITION -3500 Ba	mg/l	0.003	1.0
25	Silver as Ag	APHA 23 rd EDITION -3500 Ag	mg/l	<0.001	0.05
26	Arsenic as As	APHA 23 rd EDITION -3112 B	mg/l	<0.002	0.05
27	Mercury as Hg	APHA 23 rd EDITION -3112 B	mg/l	<0.001	0.001
28	Lead as Pb	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.1
29	Cadmium as Cd	APHA 23 rd EDITION -3111 B	mg/l	<0.001	0.01
30	Chromium as Cr	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.05
31	Selenium as Se	APHA 23 rd EDITION -3500 B	mg/l	<0.001	0.01
32	Cyanide as CN	APHA 23 rd EDITION -4500 D	mg/l	Nil	0.05
33	Phenols	IS: 3025(part-43)	mg/l	Nil	0.002
34	Anionic Detergents as MBAS	IS : 13428-2005	mg/l	<0.1	0.2
35	Percent Sodium	LAB SOP	%	15.8	---
36	Sodium Absorption Ratio	LAB SOP	mg/l	9.8	---

INFERENCE IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within limits.

Verified by



Authorized Signature

End of the Report

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 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/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No: MSVAL/2022/9378

Report Issued Date: 21.09.2022

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 : Surface water – Tungabhadra 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 : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion Date : 21.09.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Total Coliform	IS 1622:1981	MPN/100 ml	8	50

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit Report Status: - The above parameters are within limits.
-----------	---

Verified by

Authorized Signature

End of the Report





MSV Analytical Laboratories

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MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No : MSVAL/2022/9379

Report Issued Date: 21.09.2022

- 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 : Surface water - Canal Near Vysanakere
- Sample Collected By : MSV Analytical Laboratories
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/Satisfactory
- Date of Sample Receipt : 14.09.2022
- Analysis Starting Date : 15.09.2022
- Analysis Completion date : 21.09.2022
- Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Physical parameters					
1	Taste	IS : 3025(part-7)	---	Agreeable	Agreeable
2	Color	IS : 3025(part-4)	---	<5	10
3	Odor	IS : 3025(part-5)	---	Un objectionable	Un objectionable
4	pH	IS : 3025(part-11)	---	7.26	6.5-8.5
5	Conductivity	IS-3025 (part 14)	µs/cm	994	---
Chemical parameters					
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	488	500
7	Calcium as Ca	IS : 3025(part-40)	mg/l	23.8	80.10
8	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	93.8	300
9	Magnesium as Mg	IS: 3025(part-46)	mg/l	8.33	24.28
10	Oil & Grease	IS : 3025(part-39)	mg/l	Nil	---
11	Mineral Oil	APHA 23 rd EDITION - 5520 C	mg/l	Nil	0.01
12	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	13.4	400
13	Chloride as Cl	IS : 3025(part-32)	mg/l	36.9	250
14	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	0.48	20
15	Iron as Fe	IS : 3025(part-53)	mg/l	Nil	0.3
16	Fluoride as F	IS : 3025(part-60)	mg/l	0.16	1.50
17	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS 3025 (Part 44): 1993	mg/l	Nil	2
18	Dissolved Oxygen	IS 3025 (Part 38): 1993	mg/l	6.55	Min 6
19	Free CO ₂	LAB SOP	mg/l	Nil	---
20	Free Ammonia	LAB SOP	mg/l	Nil	---

INFERENCE IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within 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/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

- Test Report No : MSVAL/2022/9379 Report Issued Date: 21.09.2022
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 : Surface water - Canal Near Vysanakere
 3. Sample Collected By : MSV Analytical Laboratories
 4. Sample Quantity : 2 Liters
 5. Sample Description/condition : Good/Satisfactory
 6. Date of Sample Receipt : 14.09.2022
 7. Analysis Starting Date : 15.09.2022
 8. Analysis Completion date : 21.09.2022
 9. Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Chemical parameters					
21	Manganese as Mn	APHA 23 rd EDITION -3111 B	mg/l	0.024	0.5
22	Zinc as Zn	IS: 3025(part-49)	mg/l	0.022	15
23	Boron as B	APHA 23 rd EDITION -4500 B	mg/l	Nil	---
24	Barium as Ba	APHA 23 rd EDITION -3500 Ba	mg/l	0.002	1.0
25	Silver as Ag	APHA 23 rd EDITION -3500 Ag	mg/l	<0.001	0.05
26	Arsenic as As	APHA 23 rd EDITION -3112 B	mg/l	<0.002	0.05
27	Mercury as Hg	APHA 23 rd EDITION -3112 B	mg/l	<0.001	0.001
28	Lead as Pb	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.1
29	Cadmium as Cd	APHA 23 rd EDITION -3111 B	mg/l	<0.001	0.01
30	Chromium as Cr	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.05
31	Selenium as Se	APHA 23 rd EDITION -3500 B	mg/l	<0.001	0.01
32	Cyanide as CN	APHA 23 rd EDITION -4500 D	mg/l	Nil	0.05
33	Phenols	IS: 3025(part-43)	mg/l	Nil	0.002
34	Anionic Detergents as MBAS	IS : 13428-2005	mg/l	<0.1	0.2
35	Percent Sodium	LAB SOP	%	16.3	---
36	Sodium Absorption Ratio	LAB SOP	mg/l	9.8	---

INFERENCE

IS - 2296 Standards, BDL - Below Detectable Limit

Report Status: - The above parameters are within limits.

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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MSVAL/A/F/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No : MSVAL/2022/9379

Report Issued Date: 21.09.2022

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 : Surface water - Canal Near Vysanakere
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 : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion Date : 21.09.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Total Coliform	IS 1622:1981	MPN/100 ml	15	50

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit 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)

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

MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9380

Report Issued Date: 21.09.2022

- 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 : Surface water - Dhananayakana Kere Water
- Sample Collected By : MSV Analytical Laboratories
- Sample Quantity : 2 Liters
- Sample Description/condition : Good/Satisfactory
- Date of Sample Receipt : 14.09.2022
- Analysis Starting Date : 15.09.2022
- Analysis Completion date : 21.09.2022
- Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Physical parameters					
1	Taste	IS : 3025(part-7)	---	Agreeable	Agreeable
2	Color	IS : 3025(part-4)	---	<5	10
3	Odor	IS : 3025(part-5)	---	Un objectionable	Un objectionable
4	pH	IS : 3025(part-11)	---	6.88	6.5-8.5
5	Conductivity	IS-3025 (part 14)	µs/cm	886	---
Chemical parameters					
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	414	500
7	Calcium as Ca	IS : 3025(part-40)	mg/l	22.6	80.10
8	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	80.2	300
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	5.75	24.28
10	Oil & Grease	IS : 3025(part-39)	mg/l	Nil	---
11	Mineral Oil	APHA 23 rd EDITION - 5520 C	mg/l	Nil	0.01
12	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	26.8	400
13	Chloride as Cl	IS : 3025(part-32)	mg/l	56.9	250
14	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	1.36	20
15	Iron as Fe	IS : 3025(part-53)	mg/l	0.002	0.3
16	Fluoride as F	IS : 3025(part-60)	mg/l	0.28	1.50
17	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS 3025 (Part 44): 1993	mg/l	Nil	2
18	Dissolved Oxygen	IS 3025 (Part 38): 1993	mg/l	6.28	Min 6
19	Free CO ₂	LAB SOP	mg/l	Nil	---
20	Free Ammonia	LAB SOP	mg/l	Nil	---

INFERENCE IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within limits.

Verified by



Authorized Signature

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.msvalbellary.com

MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9380		Report Issued Date: 21.09.2022
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	:	Surface water - Dhananayakana Kere Water
3. Sample Collected By	:	MSV Analytical Laboratories
4. Sample Quantity	:	2 Liters
5. Sample Description/condition	:	Good/Satisfactory
6. Date of Sample Receipt	:	14.09.2022
7. Analysis Starting Date	:	15.09.2022
8. Analysis Completion date	:	21.09.2022
9. Sample tested As Received	:	

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Chemical parameters					
21	Manganese as Mn	APHA 23 rd EDITION -3111 B	mg/l	0.012	0.5
22	Zinc as Zn	IS: 3025(part-49)	mg/l	0.020	15
23	Boron as B	APHA 23 rd EDITION -4500 B	mg/l	Nil	---
24	Barium as Ba	APHA 23 rd EDITION -3500 Ba	mg/l	0.002	1.0
25	Silver as Ag	APHA 23 rd EDITION -3500 Ag	mg/l	<0.001	0.05
26	Arsenic as As	APHA 23 rd EDITION -3112 B	mg/l	<0.002	0.05
27	Mercury as Hg	APHA 23 rd EDITION -3112 B	mg/l	<0.001	0.001
28	Lead as Pb	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.1
29	Cadmium as Cd	APHA 23 rd EDITION -3111 B	mg/l	<0.001	0.01
30	Chromium as Cr	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.05
31	Selenium as Se	APHA 23 rd EDITION -3500 B	mg/l	<0.001	0.01
32	Cyanide as CN	APHA 23 rd EDITION -4500 D	mg/l	Nil	0.05
33	Phenols	IS: 3025(part-43)	mg/l	Nil	0.002
34	Anionic Detergents as MBAS	IS : 13428-2005	mg/l	<0.1	0.2
35	Percent Sodium	LAB SOP	%	12.6	---
36	Sodium Absorption Ratio	LAB SOP	mg/l	7.8	---

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit Report Status: - The above parameters are within limits.
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End of the Report

1. The results listed only to the tested samples & applicable parameters, 2. Water samples will destroyed after 10days, Filter papers & Thimbles will be destroyed 3months from the date of issue of test certificate unless otherwise specified. ILC sample will be destroyed after 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/2022/9380

Report Issued Date: 21.09.2022

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 : Surface water - Dhananayakana Kere Water
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 : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion Date : 21.09.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Total Coliform	IS 1622:1981	MPN/100 ml	18	50

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit 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/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9381

Report Issued Date: 21.09.2022

1. Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
2. Name of the sample : Surface water - Water body near Narayadevarakere
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/Satisfactory
6. Date of Sample Receipt : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion date : 21.09.2022
9. Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Physical parameters					
1	Taste	IS : 3025(part-7)	---	Agreeable	Agreeable
2	Color	IS : 3025(part-4)	---	<5	10
3	Odor	IS : 3025(part-5)	---	Un objectionable	Un objectionable
4	pH	IS : 3025(part-11)	---	8.14	6.5-8.5
5	Conductivity	IS-3025 (part 14)	µs/cm	996	---
Chemical parameters					
6	Total Dissolved Solids	IS : 3025(part-16)	mg/l	536	500
7	Calcium as Ca	IS : 3025(part-40)	mg/l	50.2	80.10
8	Total Hardness as CaCO ₃	IS : 3025(part-21)	mg/l	178.8	300
9	Magnesium as Mg	IS : 3025(part-46)	mg/l	12.95	24.28
10	Oil & Grease	IS : 3025(part-39)	mg/l	Nil	---
11	Mineral Oil	APHA 23 rd EDITION - 5520 C	mg/l	Nil	0.01
12	Sulphate as SO ₄	IS : 3025(part-24)	mg/l	30.2	400
13	Chloride as Cl	IS : 3025(part-32)	mg/l	114.9	250
14	Nitrate as NO ₃	IS : 3025(part-34)	mg/l	0.68	20
15	Iron as Fe	IS : 3025(part-53)	mg/l	0.06	0.3
16	Fluoride as F	IS : 3025(part-60)	mg/l	0.24	1.50
17	Bio-chemical Oxygen Demand (3 days at 27°C), Max	IS 3025 (Part 44): 1993	mg/l	Nil	2
18	Dissolved Oxygen	IS 3025 (Part 38): 1993	mg/l	6.88	Min 6
19	Free CO ₂	LAB SOP	mg/l	Nil	---
20	Free Ammonia	LAB SOP	mg/l	Nil	---

INFERENCE IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within limits.

Verified by

End of the Report

Authorized Signature

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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MSVAL/W/F/13/00

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/ 9381

Report Issued Date: 21.09.2022

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 : Surface water - Water body near
Narayadevarakere
3. Sample Collected By : MSV Analytical Laboratories
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/Satisfactory
6. Date of Sample Receipt : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion date : 21.09.2022
9. Sample tested As Received

S.No	Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Chemical parameters					
21	Manganese as Mn	APHA 23 rd EDITION -3111 B	mg/l	0.024	0.5
22	Zinc as Zn	IS: 3025(part-49)	mg/l	0.030	15
23	Boron as B	APHA 23 rd EDITION -4500 B	mg/l	Nil	---
24	Barium as Ba	APHA 23 rd EDITION -3500 Ba	mg/l	0.002	1.0
25	Silver as Ag	APHA 23 rd EDITION -3500 Ag	mg/l	<0.001	0.05
26	Arsenic as As	APHA 23 rd EDITION -3112 B	mg/l	<0.002	0.05
27	Mercury as Hg	APHA 23 rd EDITION -3112 B	mg/l	<0.001	0.001
28	Lead as Pb	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.1
29	Cadmium as Cd	APHA 23 rd EDITION -3111 B	mg/l	<0.001	0.01
30	Chromium as Cr	APHA 23 rd EDITION -3111 B	mg/l	<0.002	0.05
31	Selenium as Se	APHA 23 rd EDITION -3500 B	mg/l	<0.001	0.01
32	Cyanide as CN	APHA 23 rd EDITION -4500 D	mg/l	Nil	0.05
33	Phenols	IS: 3025(part-43)	mg/l	Nil	0.002
34	Anionic Detergents as MBAS	IS: 13428-2005	mg/l	<0.1	0.2
35	Percent Sodium	LAB SOP	%	18.6	---
36	Sodium Absorption Ratio	LAB SOP	mg/l	12.2	---

INFERENCE

IS - 2296 Standards, BDL - Below Detectable Limit
Report Status: - The above parameters are within 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/18/03

ANALYSIS REPORT FOR WATER IN MICROBIOLOGY

Test Report No: MSVAL/2022/9381

Report Issued Date: 21.09.2022

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 : Surface water - Water body near Narayadevarakere
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 : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis Completion Date : 21.09.2022
9. Sample tested as Received

RESULTS

Parameters	Protocol	Unit	Result	Standards as per IS - 2296
Total Coliform	IS 1622:1981	MPN/100 ml	24	50

INFERENCE	IS - 2296 Standards, BDL - Below Detectable Limit Report Status: - The above parameters are within 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/W/F/13/03

ANALYSIS REPORT OF WATER QUALITY

Test Report No: MSVAL/2022/9383

Report Issued Date: 21.09.2022

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 : Cooling Tower
3. Sample Collected By : MSV Analytical Laboratories, Bellary
4. Sample Quantity : 2 Liters
5. Sample Description/condition : Good/satisfactory
6. Date of sample Collection : 14.09.2022
7. Analysis Starting Date : 15.09.2022
8. Analysis completion Date : 21.09.2022
9. Sample Tested as Received

S.No	Parameters	Protocols	Units	Results	Max std limits As per GSR 422 E & KSPCB
1	pH	IS : 3025(part-11)	---	7.26	6.0-9.0
2	Color	IS : 3025(part -4)	Hazen	5	5-25
3	Odour	IS : 3025(part -5)	--	Agreeable	Agreeable
4	Total Suspended Solids	IS 3025 (P-17)	mg/l	14	100
5	Oil & Grease	IS: 3025(part-39)	mg/l	2	10
6	Total Chromium as Cr	IS: 3025(part-52)	mg/l	0.06	2.0
7	Total Dissolved Solids	IS : 3025(part-16)	mg/l	1968	2100
8	Dissolve Phosphate as P	IS :3025(part-31)	mg/l	2.36	5.0
9	Bio chemical Oxygen Demand	IS: 3025(part-44)	mg/l	10	30
10	Chemical Oxygen Demand	IS: 3025(part-58)	mg/l	30	250
11	Residual Free Chlorine	IS: 3025(part-26)	mg/l	Nil	1.0

INFERENCE as per GSR 422 E & KSPCB Standards
Report Status: - Measured values for all the parameters are within the limits.


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Authorized Signature

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