



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/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)
2.	Address	:	Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
3.	Sample Collected By	:	MSV Analytical laboratories, Bellary.
4.	Particulars of Sample Collected	:	RDS-460BL, FPS-APM 550
5.	Month of Collection	:	May-2022
6.	Name of the location	:	Smiore Colony
7.	Report Issued Date	:	02.06.2022

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ammonia [NH ₃] [µg/m ³]	Ozone [O ₃] [µg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			100	60	80	80	400	180
Protocols		IS-5182 (P-6) - 2006	LAB SOP	IS 5182 (P-9) 1974	IS-5182 (P-23) -2006	LAB SOP	IS-5182 (P-2) -2001	
Report Number	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4939	02.05.22	59.1	29.5	9.7	18.6	Nil	10.0
	MSVAL/2022/4990	05.05.22	61.4	20.4	10.2	16.4	Nil	9.7
II nd	MSVAL/2022/5182	10.05.22	57.3	28.5	9.3	18.1	Nil	8.3
	MSVAL/2022/5274	12.05.22	59.6	28.6	7.2	16.2	Nil	9.6
III rd	MSVAL/2022/5032	17.05.22	56.3	27.5	9.0	17.0	Nil	8.5
	MSVAL/2022/5152	20.05.22	55.6	20.6	8.4	16.1	Nil	10.7
IV th	MSVAL/2022/5432	26.05.22	56.4	29.5	10.3	19.3	Nil	9.3
	MSVAL/2022/5686	29.05.22	66.2	24.7	17.4	20.9	Nil	11.4

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		Lead [Pb] [µg/m ³]	Nickel [Ni] [ng/m ³]	Arsenic [As] [ng/m ³]	Benzene [C ₆ H ₆] [µg/m ³]	Benzo(a)pyrene [Bap] [ng/m ³]	Carbon Monoxide [CO] [mg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			1.0	20	06	5.0	1.0	4.0
Protocols		IS:5182 (P 11) - 2006	CPCB Procedure	LAB SOP	IS-5182 (P-2) - 2004	LAB SOP	CPCB Procedure	
REPORT NUMBER	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4939	02.05.22	0.027	1.16	<0.5	<1.0	<0.5	0.39
	MSVAL/2022/4990	05.05.22	0.019	1.19	<0.5	<1.0	<0.5	0.41
II nd	MSVAL/2022/5182	10.05.22	0.021	1.12	<0.5	<1.0	<0.5	0.34
	MSVAL/2022/5274	12.05.22	0.018	1.17	<0.5	<1.0	<0.5	0.36
III rd	MSVAL/2022/5032	17.05.22	0.023	1.12	<0.5	<1.0	<0.5	0.31
	MSVAL/2022/5152	20.05.22	0.026	1.21	<0.5	<1.0	<0.5	0.38
IV th	MSVAL/2022/5432	26.05.22	0.027	1.14	<0.5	<1.0	<0.5	0.25
	MSVAL/2022/5686	29.05.22	0.032	1.28	<0.5	<1.0	<0.5	0.46

INFERENCE	As per NAAQ Standards Report Status: Measured values For the above parameters are within the limit.
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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.msvlabellary.com

MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)
2.	Address	:	Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
3.	Sample Collected By	:	MSV Analytical laboratories, Bellary.
4.	Particulars of Sample Collected	:	RDS-460BL, FPS-APM 550
5.	Month of Collection	:	May-2022
6.	Name of the location	:	Kallahalli Village
7.	Report Issued Date	:	02.06.2022

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ammonia [NH ₃] [µg/m ³]	Ozone [O ₃] [µg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			100	60	80	80	400	180
Protocols		IS-5182 (P-6) - 2006	LAB SOP	IS 5182 (P-9) 1974	IS-5182 (P-23) -2006	LAB SOP	IS-5182 (P-2) -2001	
Report Number	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4942	02.05.22	55.1	18.0	7.7	15.5	Nil	9.0
	MSVAL/2022/4993	05.05.22	54.5	17.5	9.1	15.5	Nil	8.5
II nd	MSVAL/2022/5183	10.05.22	54.4	17.5	7.1	15.0	Nil	8.0
	MSVAL/2022/5277	12.05.22	55.5	16.5	8.7	14.2	Nil	8.2
III rd	MSVAL/2022/5035	17.05.22	52.2	16.4	7.0	14.1	Nil	7.1
	MSVAL/2022/5155	20.05.22	51.4	17.4	7.2	14.3	Nil	8.7
IV th	MSVAL/2022/5433	26.05.22	55.6	18.6	8.1	16.1	Nil	8.2
	MSVAL/2022/5689	29.05.22	61.6	21.6	14.6	17.3	Nil	6.2

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		Lead [Pb] [µg/m ³]	Nickel [Ni] [ng/m ³]	Arsenic [As] [ng/m ³]	Benzene [C ₆ H ₆] [µg/m ³]	Benzo(a)pyrene [Bap] [ng/m ³]	Carbon Monoxide [CO] [mg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			1.0	20	06	5.0	1.0	4.0
Protocols		IS:5182 (P 11) - 2006	CPCB Procedure	LAB SOP	IS-5182 (P-2) - 2004	LAB SOP	CPCB Procedure	
REPORT NUMBER	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4942	02.05.22	0.023	1.23	<0.5	<1.0	<0.5	0.25
	MSVAL/2022/4993	05.05.22	0.019	1.15	<0.5	<1.0	<0.5	0.30
II nd	MSVAL/2022/5183	10.05.22	0.016	1.14	<0.5	<1.0	<0.5	0.28
	MSVAL/2022/5277	12.05.22	0.019	1.11	<0.5	<1.0	<0.5	0.26
III rd	MSVAL/2022/5035	17.05.22	0.015	1.10	<0.5	<1.0	<0.5	0.27
	MSVAL/2022/5155	20.05.22	0.033	1.07	<0.5	<1.0	<0.5	0.11
IV th	MSVAL/2022/5433	26.05.22	0.023	1.15	<0.5	<1.0	<0.5	0.35
	MSVAL/2022/5689	29.05.22	0.026	1.30	<0.5	<1.0	<0.5	0.38

INFERENCE	As per NAAQ Standards Report Status: Measured values For the above parameters are within the limit.
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Authorized Signature

[Handwritten Signature]

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)
2.	Address	:	Vysanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
3.	Sample Collected By	:	MSV Analytical laboratories, Bellary.
4.	Particulars of Sample Collected	:	RDS-460BL, FPS-APM 550
5.	Month of Collection	:	May-2022
6.	Name of the location	:	Vysanakere Village
7.	Report Issued Date	:	02.06.2022

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ammonia [NH ₃] [µg/m ³]	Ozone [O ₃] [µg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
	Protocols		IS-5182 (P-6) - 2006	LAB SOP	IS 5182 (P-9) 1974	IS-5182 (P-23) -2006	LAB SOP	IS-5182 (P-2) -2001
	Report Number	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
I st	MSVAL/2022/4940	02.05.22	54.0	17.1	6.9	14.6	Nil	7.4
	MSVAL/2022/4991	05.05.22	57.3	18.0	9.1	15.9	Nil	8.7
II nd	MSVAL/2022/5184	10.05.22	54.5	16.4	6.8	14.0	Nil	6.2
	MSVAL/2022/5275	12.05.22	55.5	17.5	8.4	14.7	Nil	8.4
III rd	MSVAL/2022/5033	17.05.22	51.4	15.5	6.4	13.0	Nil	6.2
	MSVAL/2021/5153	20.05.22	56.1	21.2	9.1	18.5	Nil	7.1
IV th	MSVAL/2022/5434	26.05.22	53.4	17.5	7.1	15.5	Nil	7.2
	MSVAL/2022/5687	29.05.22	59.9	23.3	15.6	17.4	Nil	5.4

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		Lead [Pb] [µg/m ³]	Nickel [Ni] [ng/m ³]	Arsenic [As] [ng/m ³]	Benzene [C ₆ H ₆] [µg/m ³]	Benzo(a)pyrene [Bap] [ng/m ³]	Carbon Monoxide [CO] [mg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
	Protocols		IS:5182 (P 11) - 2006	CPCB Procedure	LAB SOP	IS-5182 (P-2) - 2004	LAB SOP	CPCB Procedure
	REPORT NUMBER	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS
I st	MSVAL/2022/4940	02.05.22	0.021	1.24	<0.5	<1.0	<0.5	0.20
	MSVAL/2022/4991	05.05.22	0.017	1.19	<0.5	<1.0	<0.5	0.32
II nd	MSVAL/2022/5184	10.05.22	0.013	1.21	<0.5	<1.0	<0.5	0.28
	MSVAL/2022/5275	12.05.22	0.018	1.11	<0.5	<1.0	<0.5	0.30
III rd	MSVAL/2022/5033	17.05.22	0.013	1.16	<0.5	<1.0	<0.5	0.25
	MSVAL/2021/5153	20.05.22	0.021	1.20	<0.5	<1.0	<0.5	0.26
IV th	MSVAL/2022/5434	26.05.22	0.016	1.22	<0.5	<1.0	<0.5	0.26
	MSVAL/2022/5687	29.05.22	0.032	1.26	<0.5	<1.0	<0.5	0.42

INFERENCE	As per NAAQ Standards Report Status: Measured values For the above parameters are within the limit.
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Verified by



Authorized Signature

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MSVAL/A/F/16/03

ANALYSIS REPORT OF AMBIENT AIR QUALITY

1.	Name of the Industry	:	M/s. The Sandur Manganese & Iron Ores Ltd. (Metal & Ferro Alloys Plant)
2.	Address	:	Vyasanakere, Hanumanahalli Village, Hospet Taluk, Bellary District, Karnataka.
3.	Sample Collected By	:	MSV Analytical laboratories, Bellary.
4.	Particulars of Sample Collected	:	RDS-460BL, FPS-APM 550
5.	Month of Collection	:	May-2022
6.	Name of the location	:	Gunda Village
7.	Report Issued Date	:	02.06.2022

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		PM ₁₀ [µg/m ³]	PM _{2.5} [µg/m ³]	SO ₂ [µg/m ³]	NO ₂ [µg/m ³]	Ammonia [NH ₃] [µg/m ³]	Ozone [O ₃] [µg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			100	60	80	80	400	180
Protocols		IS-5182 (P-6) - 2006	LAB SOP	IS 5182 (P-9) 1974	IS-5182 (P-23) -2006	LAB SOP	IS-5182 (P-2) -2001	
Report Number	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4941	02.05.22	57.0	20.4	8.8	17.5	Nil	5.3
	MSVAL/2022/4992	05.05.22	54.1	15.1	8.1	14.9	Nil	7.7
II nd	MSVAL/2022/5185	10.05.22	55.4	19.5	17.2	17.5	Nil	7.3
	MSVAL/2022/5276	12.05.22	53.5	15.0	8.2	15.0	Nil	7.2
III rd	MSVAL/2022/5034	17.05.22	54.4	18.3	8.0	16.0	Nil	7.8
	MSVAL/2022/5154	20.05.22	57.6	23.3	7.6	15.1	Nil	8.8
IV th	MSVAL/2022/5435	26.05.22	56.4	20.3	9.3	18.3	Nil	8.4
	MSVAL/2022/5688	29.05.22	58.0	16.7	15.0	20.0	Nil	7.0

Weeks	PARAMETERS & THEIR MAXIMUM STANDARDS		Lead [Pb] [µg/m ³]	Nickel [Ni] [ng/m ³]	Arsenic [As] [ng/m ³]	Benzene [C ₆ H ₆] [µg/m ³]	Benzo(a)pyrene [Bap] [ng/m ³]	Carbon Monoxide [CO] [mg/m ³]
			MAX STD	MAX STD	MAX STD	MAX STD	MAX STD	MAX STD
			1.0	20	06	5.0	1.0	4.0
Protocols		IS:5182 (P 11) - 2006	CPCB Procedure	LAB SOP	IS-5182 (P-2) - 2004	LAB SOP	CPCB Procedure	
REPORT NUMBER	Date of Sampling	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	RESULTS	
I st	MSVAL/2022/4941	02.05.22	0.033	1.27	<0.5	<1.0	<0.5	0.26
	MSVAL/2022/4992	05.05.22	0.016	1.13	<0.5	<1.0	<0.5	0.28
II nd	MSVAL/2022/5185	10.05.22	0.025	1.16	<0.5	<1.0	<0.5	0.20
	MSVAL/2022/5276	12.05.22	0.017	1.23	<0.5	<1.0	<0.5	0.26
III rd	MSVAL/2022/5034	17.05.22	0.022	1.18	<0.5	<1.0	<0.5	0.17
	MSVAL/2022/5154	20.05.22	0.018	1.30	<0.5	<1.0	<0.5	0.21
IV th	MSVAL/2022/5435	26.05.22	0.036	1.31	<0.5	<1.0	<0.5	0.25
	MSVAL/2022/2688	29.05.22	0.020	1.34	<0.5	<1.0	<0.5	0.38

INFERENCE	As per NAAQ Standards Report Status: Measured values For the above parameters are within the limit.
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END OF 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/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TC720722000012613F

Report Issued Date : 31.05.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasnakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID : Coke Screening & Store
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 26.05.2022
- Analysis Starting Date : 27.05.2022
- Analysis Completion Date : 31.05.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	---
Stack Temperature (°C)	40
Velocity (m/s)	5.2
Height (m)	15mtrs AGL
Diameter (m)	0.7
Cross sectional area (m ²)	0.38465

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	30.5	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	20.2	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	14.3	500
Carbon Monoxide as(CO)	IS 13270	%	0.20	Max 1%

INFERENCE	As per GSR 277 (E) Standards. Report Status :- The analyzed value for above measured parameter is within the limits.
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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TC720722000012614F

Report Issued Date : 31.05.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID : Coke Cutter
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 26.05.2022
- Analysis Starting Date : 27.05.2022
- Analysis Completion Date : 31.05.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	---
Stack Temperature (°C)	42
Velocity (m/s)	5.7
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	25.6	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	13.4	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	11.3	500
Carbon Monoxide as(CO)	IS 13270	%	0.25	Max 1%

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



:- END OF REPORT :-

Authorized Signature

- Note: 1. The results listed only to the tested samples & applicable parameters,
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4. Total liability of our laboratory is limited to the invoice amount. Any dispute arising out of this report is subject to Bellary Jurisdiction only.
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MSV Analytical Laboratories

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C.M.C Ward No 18 & C.T.C W.No.16 T.S No. 695/A/32/B1, Block No 19 (1st & 2nd Floor)
Sanganakallu Road, KEB Circle, Ballari - 583103 Contact No : Mob : 94498 03895, (O) : 08392-255169,
E-mail : msvbellary2018@gmail.com, labmsv@gmail.com, Website : www.msvbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TC720722000012615F

Report Issued Date : 31.05.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyanakere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID : Coal Crushing Area
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 26.05.2022
- Analysis Starting Date : 27.05.2022
- Analysis Completion Date : 31.05.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	---
Stack Temperature (°C)	78
Velocity (m/s)	7.0
Height (m)	15mtrs AGL
Diameter (m)	0.75
Cross sectional area (m ²)	0.44156

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	30.5	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	19.3	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	14.6	500
Carbon Monoxide as(CO)	IS 13270	%	0.27	Max 1%

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

Verified by



END OF REPORT

Authorized Signature

- Note :
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E-mail : msvalbellary2016@gmail.com, labmsv@gmail.com, Website : www.msvalbellary.com



MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No: TC720722000012616F

Report Issued Date : 31.05.2022

- Name of the Industry : M/s. The Sandur Manganese & Iron Ores Ltd.
(Metal & Ferro Alloys Plant)
Vyasankere, Hanumanahalli Village,
Hospet Taluk, Bellary District, Karnataka.
- Stack ID : DG Set 750 KVA
- Sample Collected By : MSV Analytical Laboratories, Bellary.
- Particulars of Sample Collected : Sample collected with VSS - 1
- Date of Sample Receipt : 26.05.2022
- Analysis Starting Date : 27.05.2022
- Analysis Completion Date : 31.05.2022
- Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	Diesel
Stack Temperature (°C)	110
Velocity (m/s)	7.5
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	32.1	100
Sulphur dioxide	IS-11255(Part2) - 1985	PPM	28.3	50
Nitrogen dioxide	IS-11255(Part7) - 2005	PPM	20.1	50

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



Authorized Signature

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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TTC720722000012617F

Report Issued Date : 31.05.2022

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 : 26.05.2022
6. Analysis Starting Date : 27.05.2022
7. Analysis Completion Date : 31.05.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	---
Stack Temperature (°C)	132
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	30.6	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	26.4	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	45.3	500
Carbon Monoxide as(CO)	IS 13270	%	0.23	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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Verified by

Authorized Signature



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TC-7207

MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TC720722000012618F

Report Issued Date : 31.05.2022

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 : 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 : 26.05.2022
6. Analysis Starting Date : 27.05.2022
7. Analysis Completion Date : 31.05.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	----
Stack Temperature (°C)	79
Velocity (m/s)	6.8
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	42.3	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

Authorized Signature



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MSVAL/A/F/18/03

ANALYSIS REPORT FOR SOURCE EMISSION

Test Report No : TC720722000012619F

Report Issued Date : 31.05.2022

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-2
3. Sample Collected By : MSV Analytical Laboratories, Bellary.
4. Particulars of Sample Collected : Sample collected with VSS - 1
5. Date of Sample Receipt : 26.05.2022
6. Analysis Starting Date : 27.05.2022
7. Analysis Completion Date : 31.05.2022
8. Sample Tested as Received

GENERAL DETAILS

Date of Monitoring	26.05.2022
Fuel Used	---
Stack Temperature (°C)	136
Velocity (m/s)	7.4
Height (m)	60 mtrs AGL
Diameter (m)	3.4
Cross sectional area (m ²)	9.0746

RESULTS

Parameters	Protocol	Unit	Result	GSR 277 (E) Standards
Particulate Matter	IS-11255(Part1) - 1985	mg/Nm ³	30.5	50
Sulphur dioxide	IS-11255(Part2) - 1985	mg/Nm ³	32.6	800
Nitrogen dioxide	IS-11255(Part7) - 2005	mg/Nm ³	54.2	500
Carbon Monoxide as(CO)	IS 13270	%	0.28	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

Handwritten signature of the authorized person.

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