



SAPL

Eco Care



NABL ACCREDITED
Certificate No. TC-5109

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Specialised House on Environmental Monitoring, Analysis, Assessment & Management
ISO 9001 : 2015 Certified, OHSAS 18001:2007 Certified

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ULR NO – TC51091900000240F

Format No. : EC/TRT/42/FM/01

TEST REPORT

Report Release Date : 02.03.2019	Sample Ref. No.(ARF) : EC/ARF/29/190253
Test Report No : EC/TR/42/02121	Source of Sample : Sponge Iron Plant
Type of Sample : Dust & Gaseous Emission	Sampling Date : 23.02.2019
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 27.02.2019
Sample Details : Stack Emission	Sampling Location : ESP Stack
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Sample Condition : Preserved & Sealed
	Sample Stamped as : TH – 264
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Remarks : ----
	Deviation if any : None

GENERAL INFORMATION

1 Particular of the Plant	: Sponge Iron Plant
2 Emission Due to	: Reduction of Iron Ore & Oxidation of Coal
3 Stack Connected to	: Rotary Kiln No. 1 & 2 (96 TPD x 2)
4 Material of Construction	: M.S.
5 Stack Height from G.L.	: 40.0 m
6 Height of Sampling Port from G.L.	: 25.0 m
7 Height of Sampling Port from L.D.Z.	: ----
8 Dimension of Stack at Sampling Port	: 2.0 m
9 Shape of the Stack	: Circular Ø
10 Working Load	: 96 TPD x 2 Both in Operation

FUEL CHARACTERISTIC REPORT

1 Source of Energy	: Coal (As Reducing Agent)
2 Energy Consumption	: 230 MT/day Both Kiln
3 Calorific Value (K-Cal/Kg)	: ----

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1 Flue Gas Temperature	122 °C	IS 11255 : Part 3
2 Barometric Pressure	752 mm Hg	IS 11255 : Part 3
3 Velocity of Flue Gas	5.96 m/sec	IS 11255 : Part 3
4 Flue Gas Quantity	49769 NM ³ /hr	IS 11255 : Part 3
5 Concentration of Particulate Matter	69.25 mg/NM ³	IS 11255 : Part 1
6 Concentration of Carbon Dioxide	8.6 %	IS 13270
7 Concentration of SO ₂	68.64 mg/NM ³	IS 11255 : Part 2
8 Concentration of NO _x	35.12 mg/NM ³	IS 11255 : Part 7

Note :- Latitude-24°7'50.13654"(N) Longitude-86°20'59.56403"(E)

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory
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Scientist & Chief Executive



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ULR NO – TC510919000000241F

Format No. : EC/TRT/42/FM/04

TEST REPORT

Report Release Date : 02.03.2019	Sample Ref. No.(ARF) : EC/ARF/29/190253
Test Report No : EC/TR/42/02122	Source of Sample : Sponge Iron Plant
Type of Sample : Suspended Dust & Gases	Sampling Date : 23.02.19 to 24.02.19
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 27.02.19 to 28.02.19
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Remarks : ----
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

METEOROLOGICAL INFORMATION

1	Average Temperature	24.5 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	49.0 %	4	Weather Condition	Clear Day

AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 (Part - 2)	IS : 5182 (Part - 6)	IS : 5182 (Part - 23)	EPA CFR40 (pt 50), Appendix 1
PARAMETERS	SO ₂ (µg/M ³)	NO _x (µg/M ³)	PM ₁₀ (µg/M ³)	PM _{2.5} (µg/M ³)
Method Detection Limit	5	8	20	10
1. Sampling Location : Near Office/Weigh Bridge- Lat-24°7'49.91173" (N) Long-86°21'11.82166" (E)				
Shift - A (10:00 AM To 06:00 PM)	42.07	40.63	89.53	39.99
Shift - B (06:10 PM To 02:10 AM)	32.93	35.80	71.38	
Shift - C (02:20 AM To 10:20 AM)	39.02	31.66	80.67	
Average (Shift - A To Shift - C)	38.01	36.03	80.53	
2. Sampling Location : Near Iron Ore Shed- Lat-24°7'51.99244" (N) Long-86°20'59.97743" (E)				
Shift - A (10:30 AM To 06:30 PM)	35.98	38.56	75.94	33.37
Shift - B (06:40 PM To 02:40 AM)	26.83	22.69	66.40	
Shift - C (02:50 AM To 10:50 AM)	32.93	36.49	84.24	
Average (Shift - A To Shift - C)	31.91	32.58	75.53	
3. Sampling Location : Near ESP Stack Area- Lat-24°7'48.88835" (N) Long-86°20'59.13374" (E)				
Shift - A (11:10 AM To 07:10 PM)	29.88	33.73	77.08	28.83
Shift - B (07:20 PM To 03:20 AM)	20.73	24.07	63.75	
Shift - C (03:30 AM To 11:30 AM)	23.78	29.59	70.31	
Average (Shift - A To Shift - C)	24.80	29.13	70.38	

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ULR NO - TC510919000000242F

Format No. : EC/TRT/42/FM/07

TEST REPORT

Report Release Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190253
Test Report No	: EC/TR/42/02123	Source of Sample	: Sponge Iron Plant
Type of Sample	: Noise	Sampling Date	: 23.02.2019
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: ----
Sample Details	: Ambient Noise	Sample Condition	: ----
Name & Address	: Santpuria Alloys Pvt. Ltd Manjhaladih P.O - Gadi Srirampur Giridih, Jharkhand	Remarks	: ----
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Deviation if any	: None

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	24.5
2	Average Relative Humidity (%)	49.0
3	Barometric Pressure (mm of Hg)	752
4	Weather Condition	Clear Day

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL		
	Minimum	Leq - Mean	Maximum
1. Near Office/Weigh Bridge Lat-24°7'10.01172" (N) Long-86°21'11.82166" (E)	64.50 dB(A)	71.00 dB(A)	72.00 dB(A)
2. Near Iron Ore Shed Lat-24°7'51.99244" (N) Long-86°20'59.97743" (E)	-----	-----	-----
3. Near ESP Stack Lat-24°7'48.88835" (N) Long-86°20'59.13374" (E)	61.60 dB(A)	70.04 dB(A)	74.20 dB(A)

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ULR NO – TC51091900000252F

Format No. : EC/TRT/42/FM/04

TEST REPORT

Report Release Date : 02.03.2019	Sample Ref. No.(ARF) : EC/ARF/29/190253
Test Report No : EC/TR/42/02203	Source of Sample : Sponge Iron Plant
Type of Sample : Suspended Dust & Gases	Sampling Date : 23.02.2019
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 27.02.19 to 28.02.19
Sample Details : Fugitive Air	Sample Condition : Sealed & Preserved
Name & Address : Santpuria Alloys Pvt. Ltd Manjhaladih P.O – Gadi Srirampur Giridih, Jharkhand	Remarks : ----
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None


METEOROLOGICAL INFORMATION

1	Average Temperature	24.5 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	49.0 %	4	Weather Condition	Clear Day

1. Sampling Location : 10 Meter Distance from Raw Material Crusher & Product Handling Area

Sl. No	Parameters	Test Method	Results
1	Concentration of Total Suspended Particulate Matter	IS : 5182 (Part – 4)	436.43 µg/M ³

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