



Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001: 2015 Certified, OHSAS 18001:2007 Certfied

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ULR NO - TC510919000000249F

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

TEST REPORT

Report Release Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190257
Test Report No	: EC/TR/42/02130	Source of Sample	: Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 26.02.2019
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 28.02.2019
Sample Details	: Stack Emission	Sampling Location	: Reheating Furnace Stack
Name & Address	: Mongia Steel Limited	Sample Condition	: Preserved & Sealed
	(Rolling Mill Div.)	Sample Stamped as	: TH – 266
	At – Bhudhiyadih	Sample Drawn By	: ECO CARE
	P.O - Bhudhiyadih, Giridih	Sampling Plan &	
	Jharkhand – 815302	Procedure	: EC/SOP/03/01
		Remarks	:
	F.	Deviation if any	: None

GENERAL	INFORMATION

1	Particular of the Plant	: Steel Plant
2	Emission Due to	: Combustion of Producer Gas
3	Stack Connected to	: Reheating Furnace
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 30.0 m
6	Height of Sampling Port from G.L.	: 15.0 m
7	Height of Sampling Port from L.D.Z.	;
8	Dimension of Stack at Sampling Port	: 0.60 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 90 MT/day

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Producer Gas	
2	Energy Consumption	: 9000 NM ³ /hr	
3	Calorific Value (K-Cal/Kg)	. :	

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

RE	ESULTS OF SAMPLING GASEOUS I	Method	
1	Flue Gas Temperature	172 °C	IS 11255 : Part 3
2	Barometric Pressure	752 mm Hg	IS 11255: Part 3
3	Velocity of Flue Gas	7.37 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	4979 NM ³ /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	63.39 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	6.8 %	IS 13270
7	Concentration of SO ₂	64.56 mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	28.07 mg/NM ³	IS 11255: Part 7

Note:- Latitude-24⁰9'26.16634"(N) Longitude-86⁰19'35.75308"(E)

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3. The Test report shall not be reproduced, without the written approval of laboratory

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Certificate No. TC-5109

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ULR NO - TC510919000000250F

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

TEST REPORT

: EC/ARF/29/190257 Sample Ref. No.(ARF) : 02.03.2019 Report Release Date Source of Sample : Steel Plant : EC/TR/42/02131 Test Report No : 26.02.19 to 27.02.19 Sampling Date : Suspended Dust & Gases Type of Sample : 28.02.19 to 01.03.19 Period of Analysis : Mr. Sisir Kr. Roy & Team Sample Collected by Sample Condition : Sealed & Preserved : Ambient Air Sample Details Remarks Name & Address : Mongia Steel Limited Sample Drawn By : ECO CARE (Rolling Mill Div.) Sampling Plan & At - Bhudhiyadih : EC/SOP/03/01 Procedure P.O - Bhudhiyadih, Giridih : None Deviation if any Jharkhand - 815302

METEOROLOGICAL INFORMATION

1	Average Temperature	25.2 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	46.0 %	4	Weather Condition	Clear Day

AMBIENT AIR QUALITY ANAL TEST METHOD	IS: 5182 (Part - 2)	IS: 5182 (Part - 6)	IS: 5182 (Part - 23)	EPA CFR40 (pt 50), Appendix1
PARAMETERS	$SO_2(\mu g/M^3)$	$NO_x (\mu g/M^3)$	$PM_{10} (\mu g/M^3)$	$PM_{2.5} (\mu g/M^3)$
Method Detection Limit	5	8	20	10
1. Sampling Location : Near Office-	Lat-24 ⁰ 9'30.261	37" (N) Long-86	19'40.94849" (E)	
Shift - A (10:10 AM To 06:10 PM)	45.12	43.39	84.46	
Shift - B (06:20 PM To 02:20 AM)	35.98	37.87	67.11	35.16
Shift - C (02:30 AM To 10:30 AM)	42.07	39.25	76.02	33.10
Average (Shift - A To Shift - C)	41.06	40.17	75.86	
2. Sampling Location : Near Cooling	Tower- Lat-24	9'28.19228" (N)	Long-86 ⁰ 19'36.57	323" (E)
Shift - A (10:40 AM To 06:40 PM)	39.02	38.56	79.31	
Shift - B (06:50 PM To 02:50 AM)	26.83	25.45	56.37	42.24
Shift - C (03:00 AM To 11:00 AM)	32.93	28.90	65.18	72.21
Average (Shift - A To Shift - C)	32.93	30.97	66.95	
3. Sampling Location : Finished Goo	ods Stock Yard-	Lat-24°9′32.7153	34" (N) Long-86 ⁰ 1	9'37.68276" (E)
Shift - A (11:10 AM To 07:10 PM)	35.98	33.04	62.25	
Shift - B (07:20 PM To 03:20 AM)	20.73	19.24	81.15	46.31
Shift - C (03:30 AM To 11:30 AM)	23.78	27.52	70.64	10.51
Average (Shift - A To Shift - C)	26.83	26.60	71.35	

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ULR NO - TC510919000000251F

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

TEST REPORT

Report Rele	ease Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190257	
Test Report	No	: EC/TR/42/02132	Source of Sample	: Steel Plant	
Type of Sar	nple	: Noise	Sampling Date	: 26.02.2019	
Sample Col	lected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	:	
Sample Det	ails	: Ambient Noise	Sample Condition	:	
Name & Ac	ldress	: Mongia Steel Ltd (Rolling Mill Div)	Remarks	:	
		At – Bhudhiyadih	Sample Drawn By	: ECO CARE	
		P.O – Bhudhiyadih, Giridih	Sampling Plan &		
		Jharkhand – 815302	Procedure	: EC/SOP/03/01	
			Deviation if any	: None	

METEOROLOGICAL INFORMATION

1	Average Temperature (°C)	25.2
2	Average Relative Humidity (%)	46.0
3	Barometric Pressure (mm of Hg)	752
4	Weather Condition	Clear Day

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL			
Samping Location	Minimum	Leq – Mean	Maximum	
1. Near Office Lat-24 ⁰ 9'30.26137" (N) Long-86 ⁰ 19'40.94849" (E)	55.40 dB(A)	65.79 dB(A)	75.60 dB(A)	
2. Near Cooling Tower Lat-24 ⁰ 9'28.19228" (N) Long-86 ⁰ 19'36.57323" (E)	51.40 dB(A)	59.16 dB(A)	64.50 dB(A)	
3. Finished Goods stock Yard Lat-24 ⁰ 9'32.71534" (N) Long-86 ⁰ 19'37.62276" (E)	54.20 dB(A)	68.84 dB(A)	74.40 dB(A)	

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

ULR NO - TC510919000000253F

TEST REPORT

Report Release Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190257
Test Report No	: EC/TR/42/02204	Source of Sample	: Steel Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 26.02.2019
Sample Collected by	: Mr. Sisir Kr. Roy & Team	Period of Analysis	: 28.02.19 to 01.03.19
Sample Conected by Sample Details	: Fugitive Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Mongia Steel Limited	Remarks	:
Ivallie & Address	(Rolling Mill Div.)	Sample Drawn By	: ECO CARE
		Sampling Plan &	
	At – Bhudhiyadih	Procedure	: EC/SOP/03/01
	P.O – Bhudhiyadih, Giridih	Deviation if any	: None
	Jharkhand – 815302	Deviation if any	. I tolle

METEOROLOGICAL INFORMATION

1	Average Temperature	25.2 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	46.0 %	4	Weather Condition	Clear Day

1.	Sampling Location: Near Gasifier (10 Meter Distance	ce)	
SI. No	Parameters	Test Method	Results
1	Concentration of Total Suspended Particulate Matter	IS: 5182 (Part – 4)	418.22 μg/M ³

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Method

C/TRT/42/FM/01-713304 (W.B.)

TEST REPORT

Report Release Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190256
Test Report No	: EC/TR/42/02127	Source of Sample	: Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 25.02.2019
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 28.02.2019
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: Mongia Steel Ltd	Sample Condition	: Sealed
	(Induction Furnace Div.)	Sample Stamped as	: TH – 265
	Bhudhiyadih,	Sample Drawn By	
	P.O. – Bhudhiyadih	Sampling Plan &	: ECO CARE
	Giridih, Jharkhand	Procedure	: EC/SOP/03/01
		Remarks	:
		Deviation if any	: None

GF	ENERAL INFORMATION	
1	Particular of the Plant	: M.S Billet Mfg. Unit
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at Induction Furnace
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 30.0 m
6	Height of Sampling Port from G.L.	: 10.00 m
7	Height of Sampling Port from L.D.Z.	:
8	Dimension of Stack at Sampling Port	: 0.90 m
9	Shape of the Stack	: Circular Ó
10	Working Load	: 96 MT/day

FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Electricity
2	Energy Consumption	;
3	Calorific Value (K-Cal/Kg)	:

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

1	Flue Gas Temperature	53 °C	IS 11255 : Part 3
2	Barometric Pressure	752 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	7.29 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	15107 NM ³ / hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	129.22 mg/NM ³	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	2.8%	IS 13270
7	Concentration of SO ₂	33.88 mg/NM ³	IS 11255 : Part 2
8	Concentration of NO _x	16.10 mg/NM ³	IS 11255: Part 7

Note:- Latitude-24⁰9'33.72725"(N) Longitude-86⁰19'32.10856"(E)

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

ULR NO - TC510919000000247F

TEST REPORT

Report Release Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190256
Test Report No	: EC/TR/42/02128	Source of Sample	: Steel Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 25.02.19 to 26.02.19
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 28.02.19 to 01.03.19
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Mongia Steel Ltd	Remarks	:
	(Induction Furnace Div.)	Sample Drawn By	: ECO CARE
	Bhudhiyadih,	Sampling Plan &	
	P.O. – Bhudhiyadih	Procedure	: EC/SOP/03/01
	Giridih, Jharkhand	Deviation if any	: None

METEOROLOGICAL INFORMATION

1	Average Temperature	23.4 °C	2	Barometric Pressure	752 mm of Hg
3	Average Relative Humidity	39.0 %	4	Weather Condition	Clear Day

TEST METHOD	IS: 5182 (Part - 2)	IS: 5182 (Part - 6)	IS: 5182 (Part - 23)	EPA CFR40 (pt 50), Appendix1
PARAMETERS	$SO_2(\mu g/M^3)$	$NO_x(\mu g/M^3)$	$PM_{10} (\mu g/M^3)$	$PM_{2.5} (\mu g/M^3)$
Method Detection Limit	5	8	20	10
1. Sampling Location : Near Induction	on Furnace Area	- Lat-24º9'33.75	526" (N) Long-86	19'36.31856" (E)
Shift - A (10:30 AM To 06:30 PM)	29.88	28.90	80.17	
Shift - B (06:40 PM To 02:40 AM)	32.93	30.97	57.70	20.42
Shift - C (02:50 AM To 10:50 AM)	20.73	24.07	69.12	39.43
Average (Shift - A To Shift - C)	27.85	27.98	69.00	
2. Sampling Location: Near Labour	Room - Lat-240	9'37.55614" (N)	Long-86 ⁰ 19'36.27	39" (E)
Shift - A (11:00 AM To 07:00 PM)	26.83	35.11	66.31	
Shift - B (07:10 PM To 03:10 AM)	17.68	18.56	52.23	21.00
Shift - C (03:20 AM To 11:50 AM)	39.02	33.04	74.47	31.99
Average (Shift - A To Shift - C)	27.84	28.90	64.34	
3. Sampling Location: Near Cooling	Tower - Lat-24	⁰ 9'34.4163" (N) I	Long-86 ⁰ 19'30.446	583" (E)
Shift - A (11:10 AM To 07:10 PM)	42.07	37.87	72.24	
Shift - B (07:20 PM To 03:20 AM)	23.78	19.24	54.87	25.49
Shift - C (03:30 AM To 11:30 AM)	26.83	27.52	67.08	35.48
Average (Shift - A To Shift - C)	30.89	28.21	64.73	

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ULR NO - TC510919000000248F

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

TEST REPORT

Report Re	elease Date	: 02.03.2019	Sample Ref. No.(ARF)	: EC/ARF/29/190256	
Test Repo	ort No	: EC/TR/42/02129	Source of Sample	: Steel Plant	
Type of S	Sample	: Noise	Sampling Date	: 25.02.2019	I
Sample C	collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	:	
Sample D	etails	: Ambient Noise	Sample Condition	:	
Name &	Address	: Mongia Steel Ltd	Remarks	:	l
		(Induction Furnace Div.)	Sample Drawn By	: ECO CARE	
		Bhudhiyadih,	Sampling Plan &		ı
		P.O. – Bhudhiyadih	Procedure	: EC/SOP/03/01	ı
		Giridih, Jharkhand	Deviation if any	: None	

METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	23.4
2	Average Relative Humidity (%)	39.0
3	Barometric Pressure (mm of Hg)	752
4	Weather Condition	Clear Day

AMBIENT NOISE QUALITY REPORT

Sampling Location	NOISE LEVEL			
Sampling Location	Minimum	Leq – Mean	Maximum	
1. Near Induction Furnace Area Lat-24°9'33.7526" (N) Long-86°19'36.31856" (E)	53.70 dB(A)	67.57 dB(A)	73.10 dB(A)	
2. Near Labour Room Lat-24 ⁰ 9'37.55614" (N) Long-86 ⁰ 19'36.2739" (E)	54.50 dB(A)	62.69 dB(A)	68.40 dB(A)	
3. Near Cooling Tower Lat-24 ⁰ 9'34.4163" (N) Long-86 ⁰ 19'30.44683" (E)	49.50 dB(A)	62.91 dB(A)	70.60 dB(A)	

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