



# Eco Care



Phone : (0341) 2252011

Email : ecocareasansol@rediffmail.com

Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

Manoj Talkies Basement, Kumarpur  
Asansol - 713304  
Paschim Bardhaman (W.B.)

ULR NO – TC510921000000967F

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

## TEST REPORT

Report Release Date : 22.11.2021	Sample Ref. No.(ARF) : EC/ARF/29/211151
Test Report No : EC/TR/42/11251	Source of Sample : Integrated Steel Plant
Type of Sample : Suspended Dust & Gases	Sampling Date : 15.11.21 to 16.11.21
Sample Collected by : Mr. Binod Singh & Team	Period of Analysis : 18.11.21 to 19.11.21
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : Atibir Industries Co. Ltd (Unit - II) At : Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Remarks : ----
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

## METEOROLOGICAL INFORMATION

1	Average Temperature	21.4 °C	2	Barometric Pressure	758 mm of Hg
3	Average Relative Humidity	36.0 %	4	Weather Condition	Clear Day

## AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 ( Part – 2 )	IS : 5182 ( Part – 6 )	IS : 5182 ( Part – 23 )	IS : 5182 ( Part – 4 )
PARAMETERS	SO <sub>2</sub> (µg/M <sup>3</sup> )	NO <sub>x</sub> (µg/M <sup>3</sup> )	PM <sub>10</sub> (µg/M <sup>3</sup> )	SPM (µg/M <sup>3</sup> )
Method Detection Limit	5	8	20	5
<b>1. Sampling Location : Near Administrative Building</b>				
Shift - A (09:30 AM To 05:30 PM )	25.40	30.28	73.24	253.66
Shift - B (05:40 PM To 01:40 AM )	13.31	22.12	57.65	241.78
Shift - C (01:50 AM To 09:50 AM)	17.34	27.56	68.37	249.32
Average ( Shift - A To Shift - C )	18.68	26.65	66.42	248.25
<b>2. Sampling Location: Near Weigh Bridge No. 2</b>				
Shift - A (10:10 AM To 06:10 PM )	29.44	34.37	75.27	279.14
Shift - B (06:20 PM To 02:20 AM )	17.34	25.52	62.34	245.39
Shift - C (02:30 AM To 10:30 AM)	21.37	31.64	70.46	266.43
Average ( Shift - A To Shift - C )	22.72	30.51	69.36	263.65

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

*Niranjan Lal Agarwalla*

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**Niranjan Lal Agarwalla**  
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Paschim Bardhaman (W.B.)

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ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC510921000000968F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11252	Source of Sample	: Integrated Steel Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 16.11.21 to 17.11.21
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.21 to 19.11.21
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit - II) At : Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Remarks	: ----
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Deviation if any	: None

### METEOROLOGICAL INFORMATION

1	Average Temperature	21.2 °C	2	Barometric Pressure	758 mm of Hg
3	Average Relative Humidity	38.0 %	4	Weather Condition	Clear Day

### AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 ( Part - 2 )	IS : 5182 ( Part - 6 )	IS : 5182 ( Part - 23 )	IS : 5182 ( Part - 4 )
PARAMETERS	SO <sub>2</sub> (µg/M <sup>3</sup> )	NO <sub>x</sub> (µg/M <sup>3</sup> )	PM <sub>10</sub> (µg/M <sup>3</sup> )	SPM (µg/M <sup>3</sup> )
Method Detection Limit	5	8	20	5
<b>3. Sampling Location : Near Coke Stock Yard</b>				
Shift - A (10:30 AM To 06:30 PM )	37.50	41.17	81.05	299.07
Shift - B (06:40 PM To 02:40 AM )	21.37	28.24	69.17	267.13
Shift - C (02:50 AM To 10:50 AM)	25.40	36.41	76.31	281.42
Average ( Shift - A To Shift - C )	28.09	35.27	75.51	282.54
<b>4. Sampling Location: Near Steel Melting Plant</b>				
Shift - A (11:10 AM To 07:10 PM )	33.47	38.45	77.11	282.16
Shift - B (07:20 PM To 03:20 AM )	17.34	26.88	64.28	243.29
Shift - C (03:30 AM To 11:30 AM)	29.44	35.04	71.43	276.44
Average ( Shift - A To Shift - C )	26.75	33.46	70.94	267.30

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*U Agarwalla*

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Paschim Bardhaman (W.B.)

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ULR NO – TC510921000000969F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11253	Source of Sample	: Integrated Steel Plant
Type of Sample	: Suspended Dust & Gases	Sampling Date	: 15.11.21 to 16.11.21
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.21 to 19.11.21
Sample Details	: Ambient Air	Sample Condition	: Sealed & Preserved
Name & Address	: Atibir Industries Co. Ltd (Unit - II) At : Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Remarks	: ----
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Deviation if any	: None

### AMBIENT AIR QUALITY ANALYSIS REPORT

#### 1. Sampling Location : Near Administrative Building

Sl. No	Parameters	TEST METHOD	Results
1	Concentration of Particulate Matter 2.5 micron	USEPA CFR40(pt50), Appendix L	31.47 µg/M <sup>3</sup>

#### 2. Sampling Location: Near Weigh Bridge No. 2

Sl. No	Parameters	TEST METHOD	Results
1	Concentration of Particulate Matter 2.5 micron	USEPA CFR40(pt50), Appendix L	32.19 µg/M <sup>3</sup>

#### 3. Sampling Location : Near Coke Stock Yard

Sl. No	Parameters	TEST METHOD	Results
1	Concentration of Particulate Matter 2.5 micron	USEPA CFR40(pt50), Appendix L	34.48 µg/M <sup>3</sup>

#### 4. Sampling Location: Near Steel Melting Plant

Sl. No	Parameters	TEST METHOD	Results
1	Concentration of Particulate Matter 2.5 micron	USEPA CFR40(pt50), Appendix L	40.15 µg/M <sup>3</sup>

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11254	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 15.11.2021
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.2021
Sample Details	: Stack Emission	Sampling Location	: E.S.P Stack
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit – II) Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped as	: TH – 142
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

## GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Combustion of Furnace oil/coal
3	Stack Connected to	: Pelletisation Plant
4	Material of Construction	: M.S.
5	Stack Height from G.L.	: 45.00 m
6	Height of Sampling Port from G.L.	: 35.62 m
7	Height of Sampling Port from L.D.Z.	: 28.00 m
8	Dimension of Stack at Sampling Port	: 3.50 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: Iron Ore - 200 MT/Day

## FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Coal and BF Gas
2	Energy Consumption	: Coal – 20Kg/MT, and BF Gas – 10.000M <sup>3</sup> /hr
3	Calorific Value (K-Cal/Kg)	: ----

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

### Method

1	Flue Gas Temperature	137 <sup>0</sup> C	IS 11255 : Part 3
2	Barometric Pressure	758 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	4.74 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	119045 NM <sup>3</sup> /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	51.37 mg/NM <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	6.4%	IS 13270
7	Concentration of SO <sub>2</sub>	130.28 mg/NM <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO <sub>x</sub>	76.21 mg/NM <sup>3</sup>	IS 11255 : Part 7

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Paschim Bardhaman (W.B.)

ULR NO - TC510921000000971F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11255	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 15.11.2021
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.2021
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit - II) Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped as	: TH - 143
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

## GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Smelting of Coke & Ore
3	Stack Connected to	: Blast Furnace No -1 (300 nm <sup>3</sup> )
4	Material of Construction	: Bricks
5	Stack Height from G.L.	: 60.00 m
6	Height of Sampling Port from G.L.	: 23.00 m
7	Height of Sampling Port from L.D.Z.	: 20.00 m
8	Dimension of Stack at Sampling Port	: 1.75 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: Sinter/Pellet 1900MT/Day

## FUEL CHARACTERISTIC REPORT

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

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

### Method

1	Flue Gas Temperature	174 <sup>0</sup> C	IS 11255 : Part 3
2	Barometric Pressure	758 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	8.11 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	46744 NM <sup>3</sup> /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	66.12 mg/NM <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	6.2%	IS 13270
7	Concentration of SO <sub>2</sub>	74.96 mg/NM <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO <sub>x</sub>	51.26 mg/NM <sup>3</sup>	IS 11255 : Part 7

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Paschim Bardhaman (W.B.)

ULR NO – TC510921000000972F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11256	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 15.11.2021
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.2021
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit – II) Bhorandiha, P.O. – Udanabad Dist. – Giridih, Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped as	: TH – 144
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

## GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Smelting of Coke & Ore
3	Stack Connected to	: Blast Furnace No -2 (300 nm <sup>3</sup> )
4	Material of Construction	: RCC
5	Stack Height from G.L.	: 88.00 m
6	Height of Sampling Port from G.L.	: 40.00 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 3.00 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: Sinter/Pellet 1900MT/Day

## FUEL CHARACTERISTIC REPORT

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

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

### Method

1	Flue Gas Temperature	136 <sup>0</sup> C	IS 11255 : Part 3
2	Barometric Pressure	758 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	5.32 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	98358 NM <sup>3</sup> /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	42.20 mg/NM <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	7.2%	IS 13270
7	Concentration of SO <sub>2</sub>	81.94 mg/NM <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO <sub>x</sub>	57.27 mg/NM <sup>3</sup>	IS 11255 : Part 7

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Paschim Bardhaman (W.B.)

ULR NO – TC510921000000973F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11257	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 16.11.2021
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.2021
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit – 11) Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped as	: TH – 145
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

## GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Sinter Plant No -2
4	Material of Construction	: RCC
5	Stack Height from G.L.	: 100.00 m
6	Height of Sampling Port from G.L.	: 40.00 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 3.00 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: Iron Ore/Fines - 1000 MT/day

## FUEL CHARACTERISTIC REPORT

1	Source of Energy	: BF Gas
2	Energy Consumption	: BF Gas – 4000 M <sup>3</sup> /hr
3	Calorific Value (K-Cal/Kg)	: ----

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

### Method

1	Flue Gas Temperature	63 °C	IS 11255 : Part 3
2	Barometric Pressure	758 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	5.44 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	122510 NM <sup>3</sup> /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	47.76 mg/NM <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	5.2%	IS 13270
7	Concentration of SO <sub>2</sub>	87.60 mg/NM <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO <sub>x</sub>	6224 mg/NM <sup>3</sup>	IS 11255 : Part 7

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Paschim Bardhaman (W.B.)

ULR NO – TC510921000000974F

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

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11258	Source of Sample	: Integrated Steel Plant
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 16.11.2021
Sample Collected by	: Mr. Binod Singh & Team	Period of Analysis	: 18.11.2021
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit – II) Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Sample Condition	: Preserved & Sealed
		Sample Stamped as	: TH – 146
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

## GENERAL INFORMATION

1	Particular of the Plant	: Integrated Steel Plant
2	Emission Due to	: Process Activity
3	Stack Connected to	: Sinter Plant No -1
4	Material of Construction	: Bricks
5	Stack Height from G.L.	: 60.00 m
6	Height of Sampling Port from G.L.	: 23.00 m
7	Height of Sampling Port from L.D.Z.	: 20.00 m
8	Dimension of Stack at Sampling Port	: 1.75 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: Iron Ore/Fines - 1000 MT/day

## FUEL CHARACTERISTIC REPORT

1	Source of Energy	: BF Gas
2	Energy Consumption	: BF Gas – 4000 M <sup>3</sup> /hr
3	Calorific Value (K-Cal/Kg)	: ----

## RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

### Method

1	Flue Gas Temperature	95 <sup>0</sup> C	IS 11255 : Part 3
2	Barometric Pressure	758 mm Hg	IS 11255 : Part 3
3	Velocity of Flue Gas	6.56 m/sec	IS 11255 : Part 3
4	Flue Gas Quantity	45943 NM <sup>3</sup> /hr	IS 11255 : Part 3
5	Concentration of Particulate Matter	45.04 mg/NM <sup>3</sup>	IS 11255 : Part 1
6	Concentration of Carbon Dioxide	5.6%	IS 13270
7	Concentration of SO <sub>2</sub>	130.28 mg/NM <sup>3</sup>	IS 11255 : Part 2
8	Concentration of NO <sub>x</sub>	76.21 mg/NM <sup>3</sup>	IS 11255 : Part 7

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Paschim Bardhaman (W.B.)

ULR NO – TC510921000000975F

Format No. : EC/TR/42/FM/05

## TEST REPORT

Report Release Date	: 22.11.2021	Sample Ref. No.(ARF)	: EC/ARF/29/211151
Test Report No	: EC/TR/42/11259	Source of Sample	: Blast Furnace Unit
Type of Sample	: Water	Sampling Date	: 17.11.2021
Sample Collected by	: Mr. Binod Singh	Period of Analysis	: 18.11.21 to 22.11.21
Sample Details	: Recycle Water	Sampling Location	: Near Blast Furnace
Name & Address	: <b>Atibir Industries Co. Ltd</b> (Unit - II) At : Bhorandiha, P.O. - Udanabad Dist. - Giridih, Jharkhand	Sample Condition	: Sealed & Preserved
		Sample Stamped as	: "AICL - 105"
		Sample Drawn By	: ECO CARE
		Remarks	: ----
		Sampling Plan & Procedure	: EC/SOP/03/01
		Deviation if any	: None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (EPR 1986 & IS 2296-1982)	Result
1	pH at 24.7 °C		4500-H <sup>+</sup> B	5.5 – 9.0	6.63
2	Temperature	°C	----	----	24.7
3	TSS	mg/l	2540 D	100.0	32.60
4	TDS	mg/l	2540 C	2100.0	659.20
5	BOD (3 days) at 27.0 °C	mg/l	IS 3025 (Part - 44): 1993	30.0	21
6	COD	mg/l	5220 B	250.0	70.56
7	Oil & Grease	mg/l	5520 B	10.0	2.52

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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Authorised Signatory