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Report No. - CEMC/ASL/160622/A

**Issued Date-16.06.2022** 

### AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description: Ambient AirDate of Monitoring: 07.06.2022Date of Receiving: 08.06.2022Date of Analysis: 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

#### **ANALYSIS RESULT**

Sl.		MONITORING REPORT							
No.	LOCATION	$PM_{10} \\ (\mu g/m^3)$	$PM_{2.5}  (\mu g/m^3)$	$SO_2$ $(\mu g/m^3)$	$NO_x$ $(\mu g/m^3)$	CO (mg/m³)	NH <sub>3</sub> (μg/m <sup>3</sup> )		
1	At the boundary near the water harvesting pond (East Direction)	72.4	36.2	12.8	16.1	0.5	<20		
2	At the Boundary near ESP (South Direction)	73.1	36.8	13.2	16.6	0.6	<20		
3	At the Boundary near Coal Fines Stock yard (North Direction)	74.3	38.4	13.9	17.8	0.6	<20		
4	Near Ball mill,Iron ore fines stock yard	75.5	38.7	13.4	15.9	0.5	<20		
NAA	NAAQ Standard-2009		60	80	80	4.0	400		
Methods of Analysis		IS: 5182 (Part-23)	IS: 5182 (Part- 24,2019)	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	IS: 5182 (Part- 25,2019)		



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Sample Collected by : Mr. Rabindra Nath Das.

Sl.		MONITORING REPORT							
No.	LOCATION	O3	Pb	Ni	As	Benzene	BaP		
110.		(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	$(\mu g/m3)$	(ng/m3)		
1	At the boundary near the								
	water harvesting pond	<10	< 0.06	< 0.6	< 0.44	<1	<1		
	(East Direction)								
2	At the Boundary near	<10	< 0.06	< 0.6	< 0.44	<1	<1		
	ESP (South Direction)		<0.00	<0.0	<0.44		<1		
3	At the Boundary near								
	Coal Fines Stock yard	<10	< 0.06	< 0.6	< 0.44	<1	<1		
	(North Direction)								
4	Near Ball mill, Iron ore	<10	< 0.06	< 0.6	< 0.44	<1	<1		
	fines stock yard	<10	<0.00	<0.0	<0.44	<1	<1		
NAA	Q Standard-2009	100	1.0	20	6	5	1		
Methods of Analysis		IS: 5182 (Part-9)	IS: 5182 (Part- 22)	IS: 5182 (Part- 26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part- 12)		

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Report No. - CEMC/ASL/160622/F

**Issued Date-16.06.2022** 

# FUGITIVE EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : Fugitive Emission

 Date of Monitoring
 : 07.06.2022

 Date of Receiving
 : 08.06.2022

 Date of Analysis
 : 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

#### ANALYSIS RESULT

Sl.		RESU	JLT
No.	LOCATION	RSPM (μg/m³)	SPM (μg/m³)
1	Proportioning System (Ash & Coke Fines Bunker)	442	1198
2	Raw Material Transfer point of Mixture (Mixture Building)	425	1207
3	Ball Mill (Cool Grinding)	396	1182
4	Ball Mill (Flux & Coke Grinding)	403	1214
5	Finished Product Transfer points and plant de-dusting system	391	1189
6	Travelling Grate & Rotary Kiln	329	1095
Stand	lard as per Environment (Protection Act)3 <sup>rd</sup> Amendment		2000*
Rules	-2012 by MoEF & CC. at 10 m distance from the source		

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Report No. - CEMC/ASL/160622/N

**Issued Date-16.06.2022** 

#### AMBIENT NOISE MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : **Noise Monitoring** 

Date of Monitoring : **07.06.2022** 

Sample Collected by : Mr. Rabindra Nath Das

#### **ANALYSIS RESULT**

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	74.5	69.6
02	Raw Material Transfer point of Mixture (Mixture Building)	73.6	68.4

#### NATIONAL STANDARD NOISE LEVEL

Area	Category of Area/Zone	Permissible Limit in dB (A)		
Code		Day Time	Night Time	
A	Industrial Area	75	70	
В	Commercial Area	65	55	
С	Residential Area	55	45	
D	Silence Zone	50	40	

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Report No. - CEMC/ASL/160622/St

**Issued Date-16.06.2022** 

### STACK EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : Stack Monitoring

Date of Monitoring : **07.06.2022** 

Sample Collected by : Mr. Rabinara Nath Das

Stack Height : 30m

### **ANALYSIS RESULT**

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
110.		1 cmp. m ix	Result
01	ESP	419	59.1
	Permissible Limit as per C7	50	

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Report No. - CEMC/ASL/160622/DW

**Issued Date-16.06.2022** 

## DRINKING WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : Ground Water
Date of Monitoring : 07.06.2022
Date of Receiving : 08.06.2022
Date of Analysis : 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.
Sample Location : Canteen(RO Water)

#### **ANALYSIS RESULT**

Sl. No	Parameter	Unit	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	<5
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	6.33
6	Total Dissolved Solid	mg/l	500	2000	103.9
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	38
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	42
9	Iron as Fe	mg/l	0.3	No Relaxation	0.09
10	Nitrate as NO <sub>3</sub> -N	mg/l	45	No Relaxation	0.61
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	2.8
12	Fluoride as F	mg/l	1.0	1.5	< 0.05
13	Calcium as Ca	mg/l	75	200	12.02
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	6.6

N.B: AL – Agreeable

Authorized Signatory

Notes:

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Report No. - CEMC/ASL/160622/SW

**Issued Date-16.06.2022** 

### SURFACE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description:Surface WaterDate of Monitoring:07.06.2022Date of Receiving:08.06.2022Date of Analysis:08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

Sample Location : Reservoir

### **ANALYSIS RESULT**

Sl. No	Parameter	Unit	GSR 422E Standards	Result
1	Colour	Hazen		10
2	Odour	-		U/O
3	pH Value @ 25°C	-	5.5-9.0	6.91
4	Total Dissolved Solid	mg/l	2100	379
5	Iron as Fe	mg/l	3.0	0.34
6	Sulphate as SO <sub>4</sub>	mg/l	1000	19.2
7	Nitrate as NO <sub>3</sub> -N	mg/l	50	24.6
8	Boron as B	mg/l	2.0	0.23
9	BOD for 3 days @ 27°C	mg/l	30	3.2
10	COD	mg/l	250	28

N.B: U/O- Un-objectionable

**Authorized Signatory** 

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Report No. - CEMC/ASL/160622/WW

**Issued Date-16.06.2022** 

# **WASTE WATER TEST REPORT**

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : Waste Water
Date of Monitoring : 07.06.2022
Date of Receiving : 08.06.2022
Date of Analysis : 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

Sample Location : STP Outlet

# **ANALYSIS RESULT**

Sl. No.	Parameter	Unit	Effluent Discharge Standard	<b>Testing Method</b>	Result
1.	pH Value @ 25°C		6.5-9.0	APHA 4500 H <sup>+</sup> B	6.53
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	14.3
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	9.6
4.	COD	mg/l	< 50	APHA 5220 C	36
5.	Oil & Grease	mg/l		APHA 5520 B	0.9

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Report No. - CEMC/ASL/160622/BW

**Issued Date-16.06.2022** 

## WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.

Sample Description : Bore Well Water

Date of Monitoring : 07.06.2022
Date of Receiving : 08.06.2022
Date of Analysis : 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

Sample Location : **Bore Well** 

### **GROUND WATER TEST REPORT**

Slr.						IS105	00:2012
No.	Parameters	Unit	BW1	BW2	BW3	Acceptable Limit	Permissible Limit
1	Colour	Hazen	<05	<05	<05	5	15
2	Odour		AL	AL	AL	AL	AL
3	Taste		AL	AL	AL	AL	AL
4	Turbidity	NTU	<1.0	<1.0	<1.0	1	5
5	pH Value @ 25°C	mg/l	7.82	7.02	7.31	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	116	108	126	200	600
7	Iron (as Fe)	mg/l	0.19	0.15	0.21	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	32.9	28.9	33.9	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	256	245.6	270	500	2000
11	Calcium (as Ca)	mg/l	32.5	30.3	35.6	75	200
12	Magnesium (as Mg)	mg/l	8.4	7.8	9.8	30	100
13	Copper (as Cu)	mg/l	< 0.03	< 0.03	< 0.03	0.05	1.5
14	Manganese (as Mn)	mg/l	< 0.05	< 0.05	< 0.05	0.1	0.3
15	Sulphate (as SO <sub>4</sub> )	mg/l	13.6	12.1	16.7	200	400
16	Nitrate (as NO <sub>3</sub> )	mg/l	5.1	4.9	6.1	45	No Relaxation
17	Fluoride (as F)	mg/l	0.17	0.4	0.19	1.0	1.5
18	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> OH)	mg/l	<0.001	<0.001	<0.001	0.001	0.002
19	Mercury (as Hg)	mg/l	< 0.001	< 0.001	< 0.001	0.001	No Relaxation
20	Cadmium (as Cd)	mg/l	<0.003	<0.003	<0.003	0.003	No Relaxation
21	Selenium (as Se)	mg/l	< 0.001	< 0.001	< 0.001	0.01	No Relaxation
22	Arsenic (as As)	mg/l	< 0.001	< 0.001	< 0.001	0.01	0.05

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23	Cyanide (as CN)	mg/l	ND	ND	ND	0.05	No Relaxation
24	Lead (as Pb)	mg/l	< 0.01	< 0.01	< 0.01	0.01	No Relaxation
25	Zinc (as Zn)	mg/l	< 0.05	< 0.05	< 0.05	5	15
26	Chromium (as Cr)	mg/l	< 0.05	< 0.05	< 0.05	0.05	No Relaxation
27	Mineral Oil	mg/l	< 0.05	< 0.05	< 0.05	0.5	No Relaxation
28	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	120	110	140	200	600
29	Aluminium (as Al)	mg/l	< 0.01	< 0.01	< 0.01	0.03	0.2
30	Boron (as B)	mg/l	< 0.2	< 0.2	< 0.2	0.5	1.0
31	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent in 10	0 mL Sample
32	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	Absent in 10	0 mL Sample

N.B: AL – Agreeable

\*END OF REPORT\*

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## Report No. - CEMC/ASL/160622/SW

**Issued Date-16.06.2022** 

Name of Company : Ardent Steel Ltd.
Sample Description : Waste material
Date of Monitoring : 07.06.2022
Date of Receiving : 08.06.2022
Date of Analysis : 08.06.2022

Sample Collected by : Mr. Rabindra Nath Das.

Sampling material : Used Oil

#### **ANALYSIS RESULT**

Sl. No	Parameter	Unit of measurement	As per HWMR-2016 Schedule-V,Part-A,Max	Used Oil
1	Polychlorinated biphenyls (PCBs)	ppm	<2	ND
2	Cadmium+Chromium+Nickel (as Cd+Cr+Ni)	ppm	500	1.09
3	Lead (as Pb)	ppm	100	0.21
4	Polyaromatic Hydrocarbon	%	6	ND
5	Arsenic (as As)	ppm	5.0	< 0.001

<sup>\*</sup>ND-Not Detected, ppm-parts per million

\*END OF REPORT\*

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<sup>\*</sup>The test parameter is within the standard limit