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Report No. - CEMC/ASL/040422/A

Issued Date-04.04.2022

AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjha	ar, Odisha.
Sample Description : Ambient Air	
Date of Monitoring : 30.03.2022	
Date of Receiving : 31.03.2022	
Date of Analysis : 31.03.2022	
Sample Collected by : Mr. B.K.Samantaray.	

ANALYSIS RESULT

SI.		MONITORING REPORT					
51. No.	LOCATION	$\begin{array}{c} PM_{10} \\ (\mu g/m^3) \end{array}$	$\frac{PM_{2.5}}{(\mu g/m^3)}$	$\frac{SO_2}{(\mu g/m^3)}$	$\frac{NO_x}{(\mu g/m^3)}$	CO (mg/m ³)	NH ₃ (μg/m ³)
1	At the boundary near the						
	water harvesting pond	74.9	38.1	13.4	17.2	0.5	<20
	(East Direction)						
2	At the Boundary near	74.7	37.9	13.7	17.3	0.5	<20
	ESP (South Direction)	/4./	51.9	15.7	17.5	0.5	<20
3	At the Boundary near						
	Coal Fines Stock yard	75.6	38.7	13.9	17.8	0.6	<20
	(North Direction)						
4	Near Ball mill, Iron ore	75.8	39.6	12.5	15.7	0.4	<20
	fines stock yard	13.0	39.0	12.3	13.7	0.4	<20
NAA	Q Standard-2009	100	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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Report No. - CEMC/ASL/040422/A

Issued Date-04.04.2022

AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company	:	Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description	:	Ambient Air
Date of Monitoring	:	30.03.2022
Date of Receiving	:	31.03.2022
Date of Analysis	:	31.03.2022
Sample Collected by	:	Mr. B.K.Samantaray.

SI. LOGATION CONTORING REPORT					NG REPO	RT	
No.	LOCATION	O3	Pb	Ni	As	Benzene	BaP
190.		(µg/m3)	(µg/m3)	(ng/m3)	(ng/m3)	(µg/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)	<10	<0.00	<0.0	<0.11		<i< td=""></i<>
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	<0.0	<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/040422/F

Issued Date-04.04.2022

FUGITIVE EMISSION MONITORING TEST REPORT

Name of Company	:	Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description	:	Fugitive Emission
Date of Monitoring	:	30.03.2022
Date of Receiving	:	31.03.2022
Date of Analysis	:	31.03.2022
Sample Collected by	:	Mr. B.K.Samantaray.

ANALYSIS RESULT

Sl.		RESULT		
No.	LOCATION	RSPM (µg/m ³)	SPM (µg/m ³)	
1	Proportioning System (Ash & Coke Fines Bunker)	415	1203	
2	Raw Material Transfer point of Mixture (Mixture Building)	426	1234	
3	Ball Mill (Cool Grinding)	398	1179	
4	Ball Mill (Flux & Coke Grinding)	409	1231	
5	Finished Product Transfer points and plant de-dusting system	347	1196	
6	Travelling Grate & Rotary Kiln	358	1124	
	ard as per Environment (Protection Act)3 rd Amendment -2012 by MoEF & CC. <i>at 10 m distance from the source</i>		2000*	

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Report No. - CEMC/ASL/040422/N

Issued Date-04.04.2022

AMBIENT NOISE MONITORING TEST REPORT

:

Name of Company Sample Description Date of Monitoring Sample Collected by

- Ardent Steel Ltd., Keonjhar, Odisha.
- : Noise Monitoring
- : 30.03.2022
- Mr. B.K.Samantaray.

ANALYSIS RESULT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	73.9	69.6
02	Raw Material Transfer point of Mixture (Mixture Building)	74.5	69.2

NATIONAL STANDARD NOISE LEVEL

Area	Category of Area/Zone	Permissible Limit in dB (A)		
Code		Day Time	Night Time	
Α	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/040422/St

Issued Date-04.04.2022

STACK EMISSION MONITORING TEST REPORT

Name of Company	:	Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description	:	Stack Monitoring
Date of Monitoring	:	30.03.2022
Sample Collected by	:	Mr. B.K.Samantaray.
Stack Height	:	30m

ANALYSIS RESULT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm ³ Result
01	ESP	402	42.5
Permissible Limit as per CTO			50

Authorized Signatory Notes:

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Report No. - CEMC/ASL/040422/DW

Issued Date-04.04.2022

DRINKING WATER TEST REPORT

Name of Company Sample Description Date of Sampling Date of Receiving Date of Analysis Sample Collected by Sample Location

- Ardent Steel Ltd., Keonjhar, Odisha.
- **Ground Water**
- 30.03.2022
- 31.03.2022
- 31.03.2022
- Mr. B.K.Samantaray.
- Canteen(RO Water)

ANALYSIS RESULT

•

CI			Desired Limit of	Permissible Limit	
Sl. No	Parameter	Unit	drinking water (BIS:10500:2012)	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	6.63
6	Total Dissolved Solid	mg/l	500	2000	42
7	Alkalinity as CaCO ₃	mg/l	200	600	28
8	Total Hardness as CaCO ₃	mg/l	200	600	24
9	Iron as Fe	mg/l	0.3	No Relaxation	0.07
10	Nitrate as NO ₃ ⁻ -N	mg/l	45	No Relaxation	0.14
11	Sulphate as SO ₄	mg/l	200	400	1.3
12	Fluoride as F	mg/l	1.0	1.5	< 0.05
13	Calcium as Ca	mg/l	75	200	6.41
14	Chloride as Cl ⁻	mg/l	250	1000	2.6

N.B: AL – Agreeable

Authorized Signatory

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Report No. - CEMC/ASL/040422/SW

Issued Date-04.04.2022

SURFACE WATER TEST REPORT

Name of Company Sample Description Date of Sampling Date of Receiving Date of Analysis Sample Collected by Sample Location Ardent Steel Ltd., Keonjhar, Odisha.
Surface Water
30.03.2022
31.03.2022
Mr. B.K.Samantaray.
Reservoir

ANALYSIS RESULT

Sl. No	Parameter	Unit	GSR 422E Standards	Result
1	Colour	Hazen		7
2	Odour	-		U/O
3	pH Value @ 25°C	-	5.5-9.0	6.68
4	Total Dissolved Solid	mg/l	2100	395
5	Iron as Fe	mg/l	3.0	0.49
6	Sulphate as SO ₄	mg/l	1000	13.8
7	Nitrate as NO ₃ ⁻ -N	mg/l	50	15.6
8	Boron as B	mg/l	2.0	0.13
9	BOD for 3 days @ 27° C	mg/l	30	2.0
10	COD	mg/l	250	14

N.B: U/O- Un-objectionable

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Report No. - CEMC/ASL/040422/WW

Issued Date-04.04.2022

WASTE WATER TEST REPORT

:

•

Name of Company Sample Description Date of Sampling Date of Receiving Date of Analysis Sample Collected by Sample Location Ardent Steel Ltd., Keonjhar, Odisha. Waste Water 30.03.2022 31.03.2022 31.03.2022 Mr. B.K.Samantaray. STP Outlet

ANALYSIS RESULT

Sl. No.	Parameter	Unit	Effluent Discharge Standard	Testing Method	Result
1.	pH Value @ 25°C		6.5-9.0	APHA 4500 H^+ B	7.07
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	11.8
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	9.4
4.	COD	mg/l	<50	APHA 5220 C	38
5.	Oil & Grease	mg/l		APHA 5520 B	0.6

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Report No. - CEMC/ASL/040422/W

Issued Date-04.04.2022

WATER TEST REPORT

:

Name of Company Sample Description Date of Sampling Date of Receiving Date of Analysis Sample Collected by Sample Location

Bore Well Water 30.03.2022 31.03.2022 31.03.2022 Mr. B.K.Samantaray. Bore Well

Ardent Steel Ltd., Keonjhar, Odisha.

GROUND WATER TEST REPORT

Slr. No.	Parameters	Unit	BW1	BW2	BW3	IS10500:2012	
						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	7.38	7.41	7.28	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO ₃)	mg/l	142	150	146	200	600
7	Iron (as Fe)	mg/l	0.22	0.20	0.21	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	32	36	34	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	192	212	196	500	2000
11	Calcium (as Ca)	mg/l	38.47	40.88	40.08	75	200
12	Magnesium (as Mg)	mg/l	11.18	11.66	11.18	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 ₄)	mg/l	13.1	13.8	13.6	200	400
16	Nitrate (as NO ₃)	mg/l	3.7	4.6	4.4	45	No Relaxation
17	Fluoride (as F)	mg/l	0.14	0.16	0.15	1.0	1.5
18	Phenolic Compounds (as C ₆ H ₅ 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 ₃)	mg/l	142	140	138	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 100 mL Sample	Absent
32	Faecal Coliform		Absent	Absent	Absent	Absent in 100 mL Sample	Absent

 $\textbf{N.B:} \ AL-Agreeable$

END OF REPORT

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Report No. - CEMC/ASL/040422/SW

Issued Date-04.04.2022

:	Ardent Steel Ltd.
:	Waste material
:	30.03.2022
:	31.03.2022
:	31.03.2022
:	Mr. B.K.Samantaray
:	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	1.21
3	Lead (as Pb)	ppm	100	0.12
4	Polyaromatic Hydrocarbon	%	6	ND
5	Arsenic (as As)	ppm	5.0	< 0.001

*ND-Not Detected, ppm-parts per million

*The test parameter is within the standard limit

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Authorized Signatory Notes:

- > The results relate only to the sample tested.
- This Test Report shall not be reproduced wholly or in part without prior written consent of the laboratory.
- The samples received shall be destroyed after two weeks from the date of issue of the Test Report unless specified otherwise.

This Test Report shall not be used in any advertising media or as evidence in the court of Law without prior written consent of the laboratory.

Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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END OF REPORT