

# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986. NABL Accredited Laboratory

Reference No : **CEMC/ASL/OCT-A/21**  
 Name of Company : **Ardent Steel Ltd.**  
 Sample Description : **Ambient Air Monitoring.**  
 Date of Monitoring : **08.10.2021**  
 Date of Receiving : **09.10.2021**  
 Date of Analysis : **09.10.2021**  
 Sample Collected by : **Mr. B.K.Samantaray.**

## AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

Date	PM <sub>10</sub> (µg/m <sup>3</sup> )	PM <sub>2.5</sub> (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>x</sub> (µg/m <sup>3</sup> )	CO (mg/m <sup>3</sup> )	NH <sub>3</sub> (µg/m <sup>3</sup> )	O <sub>3</sub> (µg/m <sup>3</sup> )	Pb (µg/m <sup>3</sup> )	Ni (ng/m <sup>3</sup> )	As (ng/m <sup>3</sup> )	Benzene (µg/m <sup>3</sup> )	BaP (ng/m <sup>3</sup> )
At the boundary near the water harvesting pond (East Direction)	65.2	33.8	10.2	14.8	0.42	<20	<10	<0.06	<0.6	<0.44	<1	<1
At the Boundary near ESP (South Direction)	60.4	30.6	9.6	13.6	0.37	<20	<10	<0.06	<0.6	<0.44	<1	<1
At the Boundary near Coal Fines Stock yard (North Direction)	64.6	31.4	10.0	14.2	0.45	<20	<10	<0.06	<0.6	<0.44	<1	<1
Near Ball mill, Iron ore fines stock yard	62.8	31.8	9.9	13.8	0.39	<20	<10	<0.06	<0.6	<0.44	<1	<1
<b>NAAQ* Standard</b>	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>4</b>	<b>400</b>	<b>100</b>	<b>1.0</b>	<b>20</b>	<b>6</b>	<b>5</b>	<b>1</b>
<b>Methods of Analysis</b>	<b>IS: 5182 (Part-23)</b>	<b>IS: 5182 (Part-24,2019)</b>	<b>IS: 5182 (Part-2)</b>	<b>IS: 5182 (Part-6)</b>	<b>IS: 5182 (Part-10)</b>	<b>IS: 5182 (Part-25,2019)</b>	<b>IS: 5182 (Part-9)</b>	<b>IS: 5182 (Part-22)</b>	<b>As per CPCB method followed by AAS</b>	<b>As per CPCB method followed by AAS</b>	<b>IS: 5182 (Part-11)</b>	<b>IS: 5182 (Part-12)</b>

**\*END OF REPORT\***

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**Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826**  
**E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.**

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
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Reference No : CEMC/ASL/ OCT -F/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Emission  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.

## FUGITIVE EMISSION TEST REPORT

Sl. No.	LOCATION	RESULT	
		RSPM ( $\mu\text{g}/\text{m}^3$ )	SPM ( $\mu\text{g}/\text{m}^3$ )
1	Proportioning System (Ash & Coke Fines Bunker)	331	1106
2	Raw Material Transfer point of Mixture (Mixture Building)	278	1067
3	Ball Mill (Cool Grinding)	296	1118
4	Ball Mill (Flux & Coke Grinding)	255	1061
5	Finished Product Transfer points and plant de-dusting system	243	1052
6	Travelling Grate & Rotary Kiln	271	1034
<b>MoEF Standard for SPM</b>		<b>--</b>	<b>2000*</b>

\* The standard is applicable at 10 m distance from the source

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Reference No : CEMC/ASL/ OCT -N/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Noise Monitoring Report  
Date of Monitoring : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.


## NOISE LEVEL STUDY REPORT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	70.8	66.2
02	Raw Material Transfer point of Mixture (Mixture Building)	69.2	64.8

## NATIONAL STANDARD NOISE LEVEL

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

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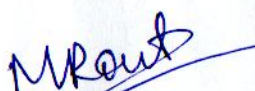
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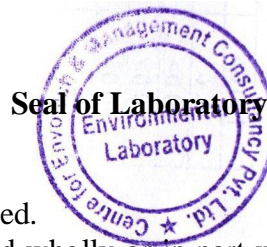
Reference No : CEMC/ASL/ OCT -St/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.  
Stack Height : 30m

## STACK EMISSION REPORT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm <sup>3</sup>
			Result
01	ESP	394	36.2

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Reference No : CEMC/ASL/ OCT -DW/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Drinking Water  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.  
Sample Location : Canteen (RO Water)

## GROUND WATER TEST REPORT

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	6.46
6	Total Dissolved Solid	mg/l	500	2000	60
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	34
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	26
9	Iron as Fe	mg/l	0.3	No Relaxation	0.07
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	0.25
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	2.2
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	5.9

N.B: AL – Agreeable

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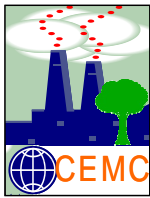


Seal of Laboratory

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Reference No : CEMC/ASL/ OCT -GW/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ground Water  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.  
Sample Location : BoreWell

## 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	7.42	7.48	7.33	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	144	152	148	200	600
7	Iron (as Fe)	mg/l	0.23	0.21	0.22	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	33	37	35	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	198	216	204	500	2000
11	Calcium (as Ca)	mg/l	39.27	42.00	41.2	75	200
12	Magnesium (as Mg)	mg/l	11.18	11.47	10.98	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	13.5	14.4	14.06	200	400
16	Nitrate (as NO <sub>3</sub> )	mg/l	3.9	4.7	4.6	45	No Relaxation
17	Fluoride (as F)	mg/l	0.15	0.17	0.16	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
23	Cyanide (as CN)	mg/l	ND	ND	ND	0.05	No Relaxation

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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	144	142	140	200	600
29	Aluminium (as Al)	mg/l	<0.01	<0.01	<0.01	0.03	0.2
30	Boron (as B)		<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

**N.B:** AL – Agreeable

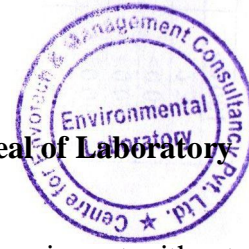
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Name of Company : Ardent Steel Ltd.  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray.  
Sample Location : Reservoir (settling pond)

## SURFACE WATER TEST REPORT

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	7.58
4	Total Dissolved Solid	mg/l	2100	334
5	Iron as Fe	mg/l	3.0	0.31
6	Sulphate as SO <sub>4</sub>	mg/l	1000	14.8
7	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	9.6	12.2
8	Boron as B	mg/l	2.5	<0.2
9	BOD for 3 days @ 27 <sup>o</sup> C	mg/l	3	2.4
10	COD	mg/l	250	20

N.B: U/O- Un-objectionable

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E-mail: [cemclab@yahoo.in](mailto:cemclab@yahoo.in)





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An ISO 9001-2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha  
Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF(Wildlife) & CWLW, Odisha  
Enlisted in Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India)  
MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986. NABL Accredited Laboratory

Reference No : CEMC/ASL/ OCT -WW/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Waste Water  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray  
Sample Location : STP

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Effluent Discharge Standard	Testing Method	Inlet	Outlet
1.	pH Value @ 25°C	--	6.5-9.0	APHA 4500 H <sup>+</sup> B	7.76	7.81
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	34.8	10.2
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	80	9.4
4.	COD	mg/l	<50	APHA 5220 C	190	25
5.	Oil & Grease	mg/l	--	APHA 5520 B	5.1	ND

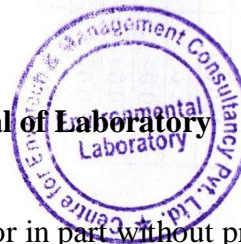
N.B:-ND-Not Detectable

**\*END OF REPORT\***

Authorized Signatory  
Notes:

- The result 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.

Seal of 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.

Regd. Office: 1<sup>st</sup> Floor, N-5/305, IRC village, Nayapalli, Bhubaneswar-751015, Odisha, India, Mobile: 9861032826  
E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
E-mail: cemclab@yahoo.in



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Reference No : CEMC/ASL/ OCT -WT/21  
Name of Company : Ardent Steel Ltd.  
Sample Description : Waste material  
Date of Monitoring : 08.10.2021  
Date of Receiving : 09.10.2021  
Date of Analysis : 09.10.2021  
Sample Collected by : Mr. B.K.Samantaray  
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	1.48
3	Lead (as Pb)	ppm	100	0.13
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

**\*END OF REPORT\***

**Authorized Signatory**

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