




# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT.

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.

Reference No : CEMC/ASL/May-A-01/19  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ambient Air  
Date of Monitoring : 02.05.2019  
Date of Receiving : 03.05.2019  
Date of Analysis : 03.05.2019  
Sample Collected by : Santosh Kumar Mohanty

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

Sl. No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ )	PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ )	SO <sub>2</sub> ( $\mu\text{g}/\text{m}^3$ )	NO <sub>x</sub> ( $\mu\text{g}/\text{m}^3$ )	CO ( $\text{mg}/\text{m}^3$ )	NH <sub>3</sub> ( $\mu\text{g}/\text{m}^3$ )
1	At the boundary near the water harvesting pond (East Direction)	72.3	40.7	14.2	18.1	0.5	<20
2	At the Boundary near ESP (South Direction)	68.6	38.9	14.3	18.2	0.4	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	74.8	41.5	15.6	18.9	0.5	<20
<b>NAAQ Standard</b>		<b>100</b> ( $\mu\text{g}/\text{m}^3$ )	<b>60</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>80</b> ( $\mu\text{g}/\text{m}^3$ )	<b>4.0</b> ( $\text{mg}/\text{m}^3$ )	<b>400</b> ( $\mu\text{g}/\text{m}^3$ )

  
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E-mail- cemc\_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in, Landline: 0674-2360344.

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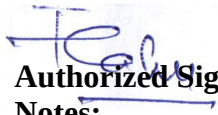
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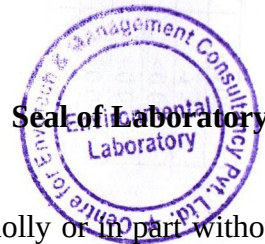
Reference No : CEMC/ASL/May -A-02/19  
Name of Company : Ardent Steel Ltd.  
Sample Description : Fugitive Air  
Date of Monitoring : 02.05.2019  
Date of Receiving : 03.05.2019  
Date of Analysis : 03.05.2019  
Sample Collected by : Santosh Kumar Mohanty

## 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)	414	1205
2	Raw Material Transfer point of Mixture (Mixture Building)	387	1097
3	Ball Mill (Cool Grinding)	421	1183
4	Ball Mill (Flux & Coke Grinding)	376	1092
5	Finished Product Transfer points and plant de-dusting system	360	1088
6	Travelling Grate & Rotary Kiln	403	1132
<b>MoEF Standard</b>		--	<b>2000*</b>

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

  
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Reference No	:	CEMC/ASL/May -N-01/19
Name of Company	:	Ardent Steel Ltd.
Sample Description	:	Noise Monitoring Report
Date of Monitoring	:	02.05.2019
Date of Receiving	:	03.05.2019
Date of Analysis	:	03.05.2019
Sample Collected by	:	Santosh Kumar Mohanty

### 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)	74.8	69.4
02	Raw Material Transfer point of Mixture (Mixture Building)	71.3	64.7

### 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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Name of Company : **Ardent Steel Ltd.**  
Sample Description : **Stack Monitoring**  
Date of Monitoring : **02.05.2019**  
Date of Receiving : **03.05.2019**  
Date of Analysis : **03.05.2019**  
Sample Collected by : **Santosh Kumar Mohanty**  
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	408	52.5

  
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Reference No : CEMC/ASL/May -GW-01/19  
Name of Company : Ardent Steel Ltd.  
Sample Description : Ground Water  
Date of Monitoring : 02.05.2019  
Date of Receiving : 03.05.2019  
Date of Analysis : 03.05.2019  
Sample Collected by : Santosh Kumar Mohanty  
Sample Location : RO Water

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	6.17
6	Total Dissolved Solid	mg/l	500	2000	117.2
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	70
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	67.8
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	0.32
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	3.8
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	17.8
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	7.9

## GROUND WATER TEST REPORT

N.B: AL – Agreeable

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Seal of Laboratory

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Reference No : CEMC/ASL/May -SW-01/19  
Name of Company : Ardent Steel Ltd.  
Date of Sampling : 02.05.2019  
Sample Description : Surface Water  
Date of Receiving : 03.05.2019  
Date of Analysis : 03.05.2019  
Sample Collected by : Santosh Kumar Mohanty  
Sample Location : Reservoir

## SURFACE WATER TEST REPORT

Sl. No	Parameter	Unit	GSR 422E Standards	Result
1	Colour	Hazen	--	6
2	Odour	-	--	U/O
3	pH Value @ 25°C	-	5.5-9.0	7.67
4	Total Dissolved Solid	mg/l	2100	360.8
5	Iron as Fe	mg/l	3.0	0.36
6	Sulphate as SO <sub>4</sub>	mg/l	1000	7.6
7	Nitrate as NO <sub>3</sub> -N	mg/l	50	8.8
8	Boron as B	mg/l	2.0	0.29
9	BOD for 3 days @ 27°C	mg/l	30	2.2
10	COD	mg/l	250	16

N.B: U/O- Un-objectionable

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