### MONTHLY ENVIRONMENTAL MONITORING REPORT

For the Month of January - 2017

For

### ARDENT STEEL LTD

At/Po-Phuljhar, Via-Suakati, Dist-Keonjhar ODISHA

#### Prepared By

### Centre for Envotech & Management Consultancy Pvt. Ltd.



(An ISO 9001-2008 & BS OHSAS 18001:2007 Certified Company,
Empanelled with OCCL, Govt. of Odisha, OSPCB as Category 'A' Consultant Organization
Accredited by NABET, Quality Council of India for EIA Studies as 'A' Category Consultant Organization.)

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Reference No : CEMC/ASL/NOV A-01/17

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Monitoring : 24-01-2017
Date of Receipt : 27-01-2017

Date of Start Analysis : 27-01-2017

Sample Collected by : **B.K Samantaray**Environmental Condition at Lab : **Temp.25+** 2°C **Humidity 50 + 10** %

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

SI.No.	LOCATION	MONITORING REPORT					
		PM <sub>10</sub> (μg/m <sup>3</sup> )	PM <sub>2.5</sub> (μg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m³)	NO <sub>x</sub> (μg/m³)	CO (mg/m <sup>3</sup> )	NH <sub>3</sub> (μg/m <sup>3</sup> )
1	At the boundary near the water harvesting pond (East Direction)	74.8	39.2	13.4	19.8	<1	BDL
2	At the Boundary near ESP (South Direction)	82.4	42.8	15.8	21.6	<1	BDL
3	At the Boundary near Coal Fines Stock yard (North Direction)	81.6	41.6	17.2	23.4	<1	BDL
	NAAQ Standard	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)	4.0 (mg/m <sup>3</sup> )	400 (μg/m³)





- The results relate only to the sample tested.
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Reference No : CEMC/ASL/SE A-02/17

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Start Monitoring : 24-01-2017
Date of Receipt : 27-01-2017
Date of Start Analysis : 27-01-2017

Date of Start Analysis : 27-01-2017
Sample Collected by : B.K Samantaray

Environmental Condition at Lab : Temp.25+2°C Humidity 50 + 10 %

#### **FUGITIVE EMISSION TEST REPORT (24 HOURLY AVERAGE)**

SI.No.	LOCATION	MONITORING REPORT		
31.140.		RSPM (µg/m³)	SPM (µg/m³)	
1	Proportioning System (Ash & Coke Fines Bunker)	141	358	
2	Raw Material Transfer point of Mixture (Mixture Building)	118	326	
3	Ball Mill (Cool Grinding)	109	324	
4	Ball Mill (Flux & Coke Grinding)	98	314	
5	Finished Product Transfer points and plant de-dusting system	124	332	
6	Travelling Grate & Rotary Kiln	92	299	
	NAAQ Standard	150 (μg/m³)	500 (μg/m³)	

Authorized Signatory: Notes:



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Reference No : CEMC/ASL/ N-01/17

Name of Company : Ardent Steel Ltd

Sample Description : Noise Monitoring Report

Date of Monitoring : 24-01-2017
Date of Receipt : 24-01-2017
Sample Collected by : B.K Samanta

Sample Collected by : B.K Samantaray
Environmental Condition at Lab : Temp.25± 2°C Humidity 50 ± 10 %

#### **NOISE LEVEL STUDY REPORT**

Si. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	74.3	66.6
02	Raw Material Transfer point of Mixture (Mixture Building)	73.8	63.8

#### **NATIONAL STANDARD NOISE LEVEL**

Area Code	Category of Area/Zone	Permissible Limit in dB (A)		
Area 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	

Authorized Signatory:





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Reference No : CEMC/ASL/ SE S-01/17

Name of Company : Ardent Steel Ltd.
Sample Description : Stack Monitoring

Date of Monitoring : 24-01-2017
Date of Receipt : 27-01-2017
Date of Start Analysis : 27-01-2017

Sample Collected by : B.K Samantaray
Environmental Condition at Lab : Temp.25± 2°C Humidity 50 ±10 %

Stack Height : 30m

#### STACK AIR QUALITY REPORT

Sl.	Location of Sampling	Flue Gas Temp. in	Concentration of Particulate Matter (PM) in mg/Nm3	
		"K	Result	
01	ESP	441	43	

Authorized Signatory:





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Reference No

CEMC/ASL/SE GW-01/17

Name of Company

Ardent Steel Ltd.

Date of Sampling

25-01-2017

Sample Description Date of Receipt

**Ground Water** 

Date of Start Analysis

27-01-2017

Sample Collected by

27-01-2017

Sample Location

**B.K Samantatray** Office Site Bore Well

#### GROUND WATER TEST REPORT

2 (	Colour Odour Taste	Hazen	pm.		
3 7			5	(BIS:10500:2012)	C/1
1	Taste	-	Agreeable		C/L
4 T	rasec	_	Agreeable	Agreeable	AL
	Turbidity	NTU			AL
5 p	oH Value @ 25°C	1410	1	5	< 0.05
	Total Dissolved Solid	/1	6.5-8.5	No Relaxation	7.3
	Alkalinity as CaCO <sub>3</sub>	mg/l	500	2000	444
T		mg/l	200	600	120
0	otal Hardness as CaCO₃	mg/I	200	600	160
9 Ir	on as Fe	mg/l	0.3		100
10 N	litrate as NO <sub>3</sub> -N	mg/l	0.3	No Relaxation	0.16
	ulphate as SO <sub>4</sub>		45	No Relaxation	4.2
	luoride as F	mg/l	200	400	<5
	alcium as Ca	mg/l	1.0	1.5	0.2
		mg/l	75	200	52
N.B.C/I-C	hloride as Cl <sup>-</sup> Colorless, U/O- Un-objectionab	mg/l	250	1000	49

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Notes:

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Reference No : CEMC/ASL/SE SW-02/17

Name of Company : Ardent Steel Ltd.

Date of Sampling : 25-01-2017
Sample Description : Surface Water
Date of Receipt : 27-01-2017

Date of Start Analysis : 27-01-2017
Sample Collected by : B.K Samantaray

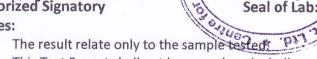
Sample Location : Reservoir

#### **SURFACE WATER TEST REPORT**

Sl.No	PARAMETER	UNIT	GSR 422E STANDARDS	Result
1	Colour	Hazen	ear que	C/L
2	Odour	none .	AP 100	U/O
3	pH Value @ 25°C	was .	5.5-9.0	6.7
4	Total Dissolved Solid	mg/l	2100	288
5	Iron as Fe	mg/l	3.0	0.8
6	Sulphate as SO <sub>4</sub>	mg/l	1000	92
7	Nitrate as NO <sub>3</sub> -N	mg/l	50	9.2
8	Boron as B	mg/l	2.0	<0.2
9	BOD for 3 days @ 27°C	mg/l	30	2.6
10	COD	mg/l	250	14

N.B:U/O- Un-objectionable, C/L - Colorless,





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