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### ARDENT STEEL LIMITED

CIN - U27310CT2007PLC007671

Ref: ASL/Pollution /2017-18

Dt.12.07.2017

The Regional Officer, State Pollution Control Board, Keonjhar Region, Keonjhar

Sub : Submission of Monthly Environmental Monitoring Report.

Dear Sir,

Enclosed please find herewith the copy of the monthly Environmental Monitoring Report of our industry for the month of June, 2017 conducted by our authorized Consultant viz. M/s Centre for Envotech and Management Consultancy Pvt. Ltd, BBSR for your reference and record.

Kindly acknowledge the receipt of the same.

Thanking you,

Yours faithfully,

FOR ARDENT STEEL LIMITED

NARASINGH SAHOO

MANAGER ( CORPORATE AFFAIRS )

Encl: As above



#### **ENVIRONMENTAL MONITORING REPORT**

Of

### M/s ARDENT STEEL LTD

Keonjhar, Odisha

June-2017



Centre For Envotech and Management Consultancy Pvt. Ltd.
Environmental Laboratory

(AN ISO: 9001: 2008 and 18001: 2007 certified company, Empanelled with SPCB, Odisha)
MoEF &CC Govt.of India Recognised Environmental Laboratory
Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar – 752101,Odisha



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/JUNE-SE SW-02/17

Name of Company : Ardent Steel Ltd.

Date of Sampling : 08-06-2017
Sample Description : Surface Water
Date of Receipt : 10-06-2017

Date of Start Analysis : 10-06-2017

Sample Collected by : **B.K Samantaray** 

Sample Location : Reservoir

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

SI. No	PARAMETER	UNIT	GSR 422E STANDARDS	Result
1	Colour	Hazen	pm 396	Colorless
2	Odour	-		U/O
3	pH Value @ 25°C	_	5.5-9.0	6.25
4	Total Dissolved Solid	mg/l	2100	321
5	Iron as Fe	mg/l	3.0	1.16
6	Sulphate as SO <sub>4</sub>	mg/l	1000	90.2
7	Nitrate as NO <sub>3</sub>	mg/l	50	10.6
8	Boron as B	mg/l	2.0	<0.2
9	BOD for 3 days @ 27°C	mg/l	30	3.1
10	COD	mg/l	250	28

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



#### Notes:

The result relate only to the sample tested.

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Reference No : CEMC/ASL/JUNE-SE GW-01/17

Name of Company : Ardent Steel Ltd.
Date of Sampling : 08-06-2017

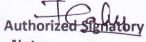
Sample Description : Ground Water
Date of Receipt : 10-06-2017
Date of Start Analysis : 10-06-2017

Sample Collected by : B.K Samantatray
Sample Location : Office Site Bore Well

#### **GROUND WATER TEST REPORT**

SI. 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	7.31
6	Total Dissolved Solid	mg/l	500	2000	401
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	140
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	152
9	Iron as Fe	mg/l	0.3	No Relaxation	0.19
10	Nitrate as NO₃ ¯	mg/l	45	No Relaxation	4.2
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	17.9
12	Fluoride as F	mg/l	1.0	1.5	0.41
13	Calcium as Ca	mg/l	. 75	200	48.1
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	56.99

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



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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, Landline: 0674-2360344.



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

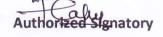
Name of Company : Ardent Steel Ltd.
Sample Description : Stack Monitoring

Date of Monitoring : 08-06-2017
Date of Receipt : 10-06-2017
Date of Start Analysis : 10-06-2017
Sample Collected by : B.K Samantaray

Stack Height : 30m

#### **STACK AIR QUALITY REPORT**

SI.	Location of	Flue Gas	Concentration of Particulate Matter (PM) in mg/Nm3 Result	
No.	Sampling	Temp. in K		
01	ESP	395	43.6	



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

Name of Company : Ardent Steel Ltd

Sample Description : Noise Monitoring Report

Date of Monitoring : 08-06-2017
Date of Receipt : 10-06-2017
Sample Collected by : B.K Samantaray

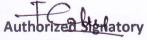
Environmental Condition at Lab : Temp.25± 2°C Humidity 50 ± 10 %

#### **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)	72.6	67.5
02	Raw Material Transfer point of Mixture (Mixture Building)	70.3	65.2

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

Avec 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	



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Reference No CEMC/ASL/JUNE-A-02/17

Name of Company **Ardent Steel Ltd** Sample Description **Fugitive Air** Date of Start Monitoring 08-06-2017

Date of Receipt 10-06-2017 Date of Start Analysis 10-06-2017

Sample Collected by **B.K Samantaray** 

#### **FUGITIVE EMISSION TEST REPORT**

SI.	LOCATION	MONITORING REPORT		
No.	LOCATION	RSPM (µg/m³)	SPM (µg/m³)	
1	Proportioning System (Ash & Coke Fines Bunker)	142	412	
2	Raw Material Transfer point of Mixture (Mixture Building)	148	418	
3	Ball Mill (Cool Grinding)	139	402	
4	Ball Mill (Flux & Coke Grinding)	106	399	
5	Finished Product Transfer points and Plant de-dusting system	129	384	
6	Travelling Grate & Rotary Kiln	121	398	
	OLD Standard	150 (μg/m³)	500 (μg/m³)	

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### MANAGEMENT CONSULTANCY PVT. LTD.

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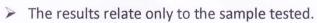
Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Monitoring : 08-06-2017
Date of Receipt : 10-06-2017
Date of Start Analysis : 10-06-2017
Sample Collected by : B.K Samantaray

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

SI.		MONITORING REPORT					
No.	LOCATION	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	NH <sub>3</sub>
		$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	(mg/m³)	$(\mu g/m^3)$
1	At the boundary near the water harvesting pond (East Direction)	71.6	40.5	14.9	18.2	<1	BDL
2	At the Boundary near ESP (South Direction)	82.3	46.9	15.1	19.3	<1	BDL
3	At the Boundary near Coal Fines Stock yard (North Direction)	85.6	51.1	13.9	17.2	<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)

NB: NH<sub>3</sub> BDL Value= 20 μg/m<sup>3</sup>





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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, E-mail: <a href="mailto:cemclab@yahoo.in">cemclab@yahoo.in</a>, Mobile: 7752014842



# ACCREDITATION AND EMPANELMENT

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

An ISO 9001-2008 & OHSAS 18001:2007 Certified Company,

#### Empanelled with:

- State Pollution Control Board (SPCB), Odisha as Environment Consultant under category -'A'.
- Orissa Construction Corporation Limited (OCCL) as Associated Consultant for carrying out EIA, FDP,
   Preparation of Wildlife Management Plan, GIS map, Socioeconomic survey, DGPS & ETS survey.
- Orissa Space Application Centre (ORSAC) for carrying out DGPS & ETS survey.
- Office of the Principal Chief Conservator of Forest (Wildlife) & Chief Wildlife Warden [PCCF (Wildlife) & CWLW], Odisha for preparation of Site Specific Wildlife Management Plans.

#### Accredited by:

- NABET, QCI for EIA Studies as 'A' Category Consultant Organization.
- NABL Accreditation Lab.

#### Enlisted in:

 Construction Industry Development Council (CIDC) established by the Planning Commission (Govt. of India) for carrying out EIA, Waste Management & Audit, Turnkey solution of ETP & STP, Site Specific Wildlife Conservation Plan & Forest Diversion Proposals.

E-mail: cemc\_consultancy@yahoo.in, Website: www.cemc.in