



ARDENT STEEL LIMITED

CIN - U27310CT2007PLC007671

Ref: ASL/Pollution /2016-17

Dt.10.03.2017

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 **December, 2016**, 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



MONTHLY ENVIRONMENTAL MONITORING REPORT

For the Month of December - 2016

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.)

Regd Off:N5/305, IRC Village, Nayapalli, Bhubaneswar, Odisha, Tele Fax: 0674 –2360344, website: www.cemc.in E-mail: cemc_consultancy @yahoo.co.in, cemc122@gmail.com



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.

Reference No : CEMC/ASL/Dec A-01/16

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Monitoring : 19-12-2016
Date of Receipt : 20-12-2016
Date of Start Analysis : 21-12-2016

Sample Collected by : A.K Barik

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

AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

Sl.No.	LOCATION	MONITORING REPORT					
		PM ₁₀	PM _{2.5}	SO ₂	NO _x	СО	NH ₃
		$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	(mg/m^3)	$(\mu g/m^3)$
1	At the boundary near						
	the water harvesting	72.5	42.1	12.4	17.2	<1	BDL
	pond (East Direction)						
2	At the Boundary near	79.2	49.2	14.2	19.1	<1	BDL
	ESP (South Direction)	79.2	43.2	14.2	15.1	71	DDL
3	At the Boundary near						
	Coal Fines Stock yard	76.8	46.1	13.3	18.4	<1	BDL
	(North Direction)						
	NAAQ Standard	100	60	80	80	4.0	400
		$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	$(\mu g/m^3)$	(mg/m^3)	$(\mu g/m^3)$

Authorized Signatory:

Notes:

The results relate only to the sample tested.

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Environmenta

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Reference No : CEMC/ASL/Dec A-02/16

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air

Date of Start Monitoring : 19-12-2016
Date of Receipt : 20-12-2016

Date of Start Analysis : 21-12-2016 Sample Collected by : A.K Barik

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

FUGITIVE EMISSION TEST REPORT (24 HOURLY AVERAGE)

SI.No.	LOCATION	MONITORING REPORT	
		RSPM (µg/m³)	SPM (µg/m³)
1	Proportioning System (Ash & Coke Fines Bunker)	111	336
2	Raw Material Transfer point of Mixture (Mixture Building)	102	304
3	Ball Mill (Cool Grinding)	99	301
4	Ball Mill (Flux & Coke Grinding)	86	288
5	Finished Product Transfer points and plant de-dusting system	101	294
6	Travelling Grate & Rotary Kiln	78	283
	NAAQ Standard	150 (μg/m³)	500 (μg/m³)

Authorized Signatory:

Notes:

Seal of Lab

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Reference No

Name of Company

Sample Description

Date of Monitoring

Date of Receipt

Sample Collected by

Environmental Condition at Lab

CEMC/ASL/ N-01/16

Ardent Steel Ltd

Noise Monitoring Report

19-12-2016

19-12-2016

A.K Barik

Temp.25 \pm 2°C Humidity 50 \pm 10 %

NOISE LEVEL STUDY REPORT

Si. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
		72.2	65.1
01	Ball Mill (Cool Grinding)		C4 F
02	Raw Material Transfer point of Mixture (Mixture Building)	71.5	61.5

NATIONAL STANDARD NOISE LEVEL

	() = - 17000	Permissible Limit in dB (A)		
Area	Category of Area/Zone	Day Time	Night Time	
Code		75	70	
Α	Industrial Area	65	55	
В	Commercial Area	55	45	
C	Residential Area		40	
	Silence Zone	50	40	







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Reference No : CEMC/ASL/ SE S-01/15

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

Date of Monitoring : 19-12-2016
Date of Receipt : 20-12-2016
Date of Start Analysis : 21-12-2016
Sample Collected by : A.K Barik

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

Stack Height : 30m

STACK AIR QUALITY REPORT

Sl. No.	Location of Sampling	Flue Gas Temp.	Concentration of Particulate Matter (PM) in mg/Nm3	
			Result	
01	ESP	433	36	

Authorized Signatory:

Seal of Lab:



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Reference No. CEMC/ASL/SE GW-01/16

Name of Company Ardent Steel Ltd. 19-12-2016 Date of Sampling Sample Description **Ground Water**

Date of Receipt 20-12-2016 Date of Start Analysis 20-12-2016 Sample Collected by A.K Barik

Sample Location Office Site Bore Well

GROUND WATER TEST REPORT

Sl.No	PARAMETER	UNIT	Desired Limit Of drinking water (BIS:10500)	Permissible Limit Of drinking water (BIS:10500)	Result
1	Colour	Hazen	5	25	C/L
2	Odour	-	Agreeable		U/O
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	0.05
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	7.63
6	Total Dissolved Solid	mg/l	500	2000	302
7	Alkalinity as CaCO ₃	mg/l	200	600	120
8	Total Hardness as CaCO ₃	mg/l	200	600	130
9	Iron as Fe	mg/l	0.3	1.0	0.1
10	Nitrate as NO ₃ -N	mg/l	45	No Relaxation	2.8
11	Sulphate as SO ₄	mg/l	200	400	5.3
12	Fluoride as F	mg/l	1.0	1.5	0.17
13	Calcium as Ca	mg/l	75	200 .	28.06
14	Chloride as Cl	mg/l	250	1000	37
N.B:C/L- Colorless, U/O- Un-objectionable, Agrl – Agreeable					

Notes:

Seal of Lab:

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Reference No : CEMC/ASL/SE SW-02/15

Name of Company : Ardent Steel Ltd.

Date of Sampling : 19-12-2016
Sample Description : Surface Water
Date of Receipt : 20-12-2016
Date of Start Analysis : 20-12-2016

Date of Start Analysis : 20-12-2016 Sample Collected by : A.K Barik

Sample Location : Reservoir

SURFACE WATER TEST REPORT

SI.No	PARAMETER	UNIT	GSR 422E STANDARDS	Result
1	Colour	Hazen		C/L
2	Odour	-		U/O
3	pH Value @ 25°C	-	5.5-9.0	6.54
4	Total Dissolved Solid	mg/l	2100	197
5	Iron as Fe	mg/l	3.0	0.26
6	Sulphate as SO ₄	mg/l	1000	57.2
7	Nitrate as NO ₃ -N	mg/l	50	5.3
8	Boron as B	mg/l	2.0	<0.2
9	BOD for 3 days @ 27°C	mg/l	30	2.2
10	COD	mg/l	250	14

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

Authorized Signatory

Seal of Lab:



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