



efc

ARDENT STEEL LIMITED
CIN - U27310CT2007PLC007671

Ref: ASL/Pollution /2016-17

Dt.20.03.2017

**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 **January and February-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



MONTHLY ENVIRONMENTAL MONITORING REPORT

[For the Month of February - 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.)



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



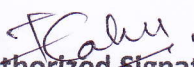
CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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.

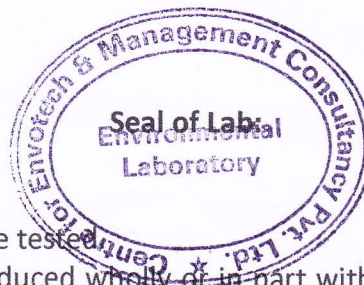
Reference No : CEMC/ASL/FEB A-01/17
Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Monitoring : 24-02-2017
Date of Receipt : 27-02-2017
Date of Start Analysis : 27-02-2017
Sample Collected by : B.K Samantaray
Environmental Condition at Lab : Temp.25± 2^oC Humidity 50 ± 10 %

AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

Sl.No.	LOCATION	MONITORING REPORT					
		PM ₁₀ (µg/m ³)	PM _{2.5} (µg/m ³)	SO ₂ (µg/m ³)	NO _x (µg/m ³)	CO (mg/m ³)	NH ₃ (µg/m ³)
1	At the boundary near the water harvesting pond (East Direction)	78.2	40.1	12.6	18.6	<1	BDL
2	At the Boundary near ESP (South Direction)	84.1	43.6	16.2	20.4	<1	BDL
3	At the Boundary near Coal Fines Stock yard (North Direction)	83.5	41.6	15.8	19.8	<1	BDL
	NAAQ Standard	100 (µg/m ³)	60 (µg/m ³)	80 (µg/m ³)	80 (µg/m ³)	4.0 (mg/m ³)	400 (µg/m ³)


Authorized Signatory:

Notes:



- The results 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.

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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in, Mobile: 7752014842



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/SE SW-02/17
Name of Company : Ardent Steel Ltd.
Date of Sampling : 26-02-2017
Sample Description : Surface Water
Date of Receipt : 27-02-2017
Date of Start Analysis : 27-02-2017
Sample Collected by : B.K Samantaray
Sample Location : Reservoir

SURFACE WATER TEST REPORT

Sl.No	PARAMETER	UNIT	GSR 422E STANDARDS	Result
1	Colour	Hazen	--	C/L
2	Odour	-	--	U/O
3	pH Value @ 25°C	-	5.5-9.0	6.9
4	Total Dissolved Solid	mg/l	2100	292
5	Iron as Fe	mg/l	3.0	0.76
6	Sulphate as SO ₄	mg/l	1000	102
7	Nitrate as NO ₃ ⁻ -N	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	2.4
10	COD	mg/l	250	12

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

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.



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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,

E-mail: cemclab@yahoo.in, Mobile: 7752014842



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/SE GW-01/17
Name of Company : Ardent Steel Ltd.
Date of Sampling : 25-02-2017
Sample Description : Ground Water
Date of Receipt : 27-02-2017
Date of Start Analysis : 27-02-2017
Sample Collected by : B.K Samantatray
Sample Location : Office Site Bore Well

GROUND WATER TEST REPORT

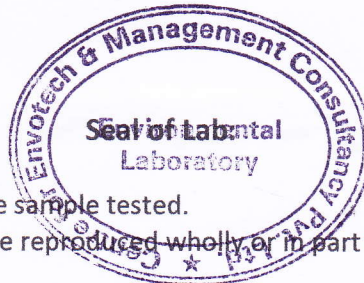
Sl.No	PARAMETER	UNIT	Desired Limit Of drinking water (BIS:10500:2012)	Permissible Limit Of drinking water (BIS:10500:2012)	Result
1	Colour	Hazen	5	15	C/L
2	Odour	-	Agreeable	Agreeable	AL
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	<0.05
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	7.41
6	Total Dissolved Solid	mg/l	500	2000	425
7	Alkalinity as CaCO ₃	mg/l	200	600	136
8	Total Hardness as CaCO ₃	mg/l	200	600	170
9	Iron as Fe	mg/l	0.3	No Relaxation	0.18
10	Nitrate as NO ₃ ⁻ -N	mg/l	45	No Relaxation	3.8
11	Sulphate as SO ₄	mg/l	200	400	<5
12	Fluoride as F	mg/l	1.0	1.5	0.2
13	Calcium as Ca	mg/l	75	200	60
14	Chloride as Cl ⁻	mg/l	250	1000	59

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


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.



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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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/ SE S-01/17
Name of Company : Ardent Steel Ltd.
Sample Description : Stack Monitoring
Date of Monitoring : 24-02-2017
Date of Receipt : 27-02-2017
Date of Start Analysis : 27-02-2017
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. No.	Location of Sampling	Flue Gas Temp. in °K	Concentration of Particulate Matter (PM) in mg/Nm ³
			Result
01	ESP	439	38

Authorized Signatory:



Notes:

- The results 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.

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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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/ N-01/17
Name of Company : Ardent Steel Ltd
Sample Description : Noise Monitoring Report
Date of Monitoring : 24-02-2017
Date of Receipt : 24-02-2017
Sample Collected by : B.K Samantaray
Environmental Condition at Lab : Temp.25± 2⁰C 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)	74.1	66.8
02	Raw Material Transfer point of Mixture (Mixture Building)	73.6	63.6

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

Teal
Authorized Signatory:



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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842



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/SE A-02/17
Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Start Monitoring : 24-02-2017
Date of Receipt : 27-02-2017
Date of Start Analysis : 27-02-2017
Sample Collected by : B.K Samantaray
Environmental Condition at Lab : Temp.25± 2°C Humidity 50 ± 10 %

FUGITIVE EMISSION TEST REPORT (24 HOURLY AVERAGE)

Sl.No.	LOCATION	MONITORING REPORT	
		RSPM ($\mu\text{g}/\text{m}^3$)	SPM ($\mu\text{g}/\text{m}^3$)
1	Proportioning System (Ash & Coke Fines Bunker)	153	366
2	Raw Material Transfer point of Mixture (Mixture Building)	125	334
3	Ball Mill (Cool Grinding)	116	333
4	Ball Mill (Flux & Coke Grinding)	100	323
5	Finished Product Transfer points and plant de-dusting system	124	341
6	Travelling Grate & Rotary Kiln	92	296
	NAAQ Standard	150 ($\mu\text{g}/\text{m}^3$)	500 ($\mu\text{g}/\text{m}^3$)


Authorized Signatory:

Notes:

- The results 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.



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: 1st 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.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: cemclab@yahoo.in, Mobile: 7752014842