



o/c

**ARDENT STEEL LIMITED**  
CIN - U27310CT2007PLC007671

Ref: ASL/Pollution /2017-18

Dt. 12.08.2017

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 July, 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

July-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

Tele: 0674 - 2460826, 7752014842





# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

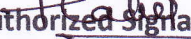
An ISO 9001:2008 & OHSAS 18001:2007 Certified Company, Empanelled with OCCL, ORSAC and SPCB of Govt. of Odisha Accredited by NABET, QCI for EIA Studies as 'A' Category Consultant Organization. Empanelled with PCCF (Wildlife) & CWLW, Odisha Enlisted in Construction Industry Development Council (CIDC) 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/JULY-SE SW-02/17  
Name of Company : Ardent Steel Ltd.  
Date of Sampling : 08-07-2017  
Sample Description : Surface Water  
Date of Receipt : 10-07-2017  
Date of Start Analysis : 10-07-2017  
Sample Collected by : B.K Samantaray  
Sample Location : Reservoir

## SURFACE WATER TEST REPORT

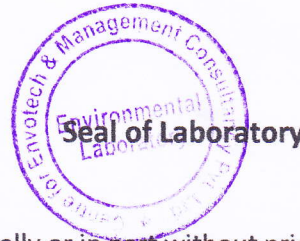
Sl.No	PARAMETER	UNIT	GSR 422E STANDARDS	Result
1	Colour	Hazen	--	Colorless
2	Odour	-	--	UO
3	pH Value @ 25°C	-	5.5-9.0	6.34
4	Total Dissolved Solid	mg/l	2100	317
5	Iron as Fe	mg/l	3.0	1.08
6	Sulphate as SO <sub>4</sub>	mg/l	1000	87.4
7	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	50	12.6
8	Boron as B	mg/l	2.0	<0.2
9	BOD for 3 days @ 27°C	mg/l	30	2.8
10	COD	mg/l	250	22

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

  
Authorized Signatory

### Notes:

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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.

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.

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Reference No : CEMC/ASL/JULY-SE GW-01/17  
Name of Company : Ardent Steel Ltd.  
Date of Sampling : 08-07-2017  
Sample Description : Ground Water  
Date of Receipt : 10-07-2017  
Date of Start Analysis : 10-07-2017  
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	2.2
2	Odour	-	Unobjectionable	Unobjectionable	UO
3	Taste	-	Agreeable	-	AL
4	Turbidity	NTU	1	5	1
5	pH Value @ 25°C	-	6.5-8.5	No Relaxation	7.34
6	Total Dissolved Solid	mg/l	500	2000	402
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	108
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	148
9	Iron as Fe	mg/l	0.3	No Relaxation	0.21
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	4.1
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	16.8
12	Fluoride as F	mg/l	1.0	1.5	0.43
13	Calcium as Ca	mg/l	75	200	47.3
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	55.9

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

  
Authorized Signatory

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E-mail- ccmc\_consultancy@yahoo.co.in, ccmc122@gmail.com, website: www.ccmc.in, Landline: 0674-2360344.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,  
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MoEF&CC, Govt. of India, Recognised Environment Laboratory under Environment (Protection) Act, 1986.

Reference No : CEMC/ASL/JULY-SE S-01/17  
Name of Company : Ardent Steel Ltd.  
Sample Description : Stack Monitoring  
Date of Monitoring : 08-07-2017  
Date of Receipt : 10-07-2017  
Date of Start Analysis : 10-05-2017  
Sample Collected by : B.K Samantaray  
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 <sup>3</sup>
			Result
01	ESP	393	41.9

  
Authorized Signatory



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Reference No : CEMC/ASL/JULY-N-01/17  
Name of Company : Ardent Steel Ltd  
Sample Description : Noise Monitoring Report  
Date of Monitoring : 08-07-2017  
Date of Receipt : 10-07-2017  
Sample Collected by : B.K Samantaray

## 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)	74.1	68.7
02	Raw Material Transfer point of Mixture (Mixture Building)	71.8	67.6

## 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

  
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Reference No : CEMC/ASL/JULY-A-02/17  
Name of Company : Ardent Steel Ltd  
Sample Description : Fugitive Air  
Date of Start Monitoring : 08-07-2017  
Date of Receipt : 10-07-2017  
Date of Start Analysis : 10-07-2017  
Sample Collected by : B.K Samantaray

## FUGITIVE EMISSION TEST REPORT

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)	159	402
2	Raw Material Transfer point of Mixture (Mixture Building)	148	421
3	Ball Mill (Cool Grinding)	143	397
4	Ball Mill (Flux & Coke Grinding)	112	379
5	Finished Product Transfer points and plant de-dusting system	122	371
6	Travelling Grate & Rotary Kiln	136	405
	<b>OLD Standard</b>	<b>150 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>500 (<math>\mu\text{g}/\text{m}^3</math>)</b>

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Reference No : CEMC/ASL/JULY-A-01/17  
Name of Company : Ardent Steel Ltd  
Sample Description : Ambient Air  
Date of Monitoring : 08-07-2017  
Date of Receipt : 10-07-2017  
Date of Start Analysis : 10-07-2017  
Sample Collected by : B.K Samantaray

## 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)	72.4	41.9	13.8	17.6	<1	BDL
2	At the Boundary near ESP (South Direction)	84.7	47.3	14.6	18.2	<1	BDL
3	At the Boundary near Coal Fines Stock yard (North Direction)	89.2	52.6	13.2	17.8	<1	BDL
	<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> ( $\mu\text{g}/\text{m}^3$ )

NB: NH<sub>3</sub> BDL Value = 20  $\mu\text{g}/\text{m}^3$

  
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## 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.

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