

ARDENT STEEL LIMITED

CIN - U27310CT2007PLC007671

Ref: ASL/Pollution /2017-18

Dt.11.05.2017

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

Sub : <u>Submission of Monthly Environmental Monitoring Report.</u>

Dear Sir,

Enclosed please find herewith the copy of the monthly Environmental Monitoring Report of our industry for the month of April,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

NARÁSINGH SAHOO

MANAGER (CORPORATE AFFAIRS)

Fact.: Vill. & P.O. - Phuljhar, Via-Suakati, Distt.-Keonjhar, Odisha

Encl: As above

R.O./ Corp. Off.: M/s. Ardent Steel Ltd., F-9 Hira Arcade, Near New Bus Stand, Pandri, Raipur, Chhattisgarh - 492004

B.O.: Plot No. 208, Mining New Colony, Jamuhota, Keonjhar-758001, Odisha, Tel:06766-258257, 258198, Fax:06766-258473

ENVIRONMENTAL MONITORING REPORT

Of

M/s ARDENT STEEL LTD

Keonjhar, Odisha

APRIL-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/APR SW-01/17

Name of Company : Ardent Steel Ltd.

Date of Sampling : 25-04-2017
Sample Description : Surface Water
Date of Receipt : 26-04-2017

Date of Start Analysis : 26-04-2017
Sample Collected by : B.K Samantaray

Sample Location : Reservoir

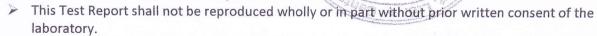
SURFACE WATER TEST REPORT

Sl.No	PARAMETER	UNIT	JNIT GSR 422E STANDARDS		
1	Colour	Hazen	NO 700	C/L	
2	Odour	-	## TO	U/O	
3	pH Value @ 25°C	_	5.5-9.0	6.5	
4	Total Dissolved Solid	mg/l	2100	301	
5	Iron as Fe	mg/l	3.0	0.81	
6	Sulphate as SO ₄	mg/l	1000	105	
7	Nitrate as NO ₃ -N	mg/l	50	11.1	
8	Boron as B	mg/l	2.0	<0.2	
9	BOD for 3 days @ 27°C	or 3 days @ 27°C mg/l 30		3.8	
10	COD	mg/l	250	20	

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



The result relate only to the sample tested.



- > 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.

Seal of 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.



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Reference No. CEMC/ASL/APR GW-01/17

Name of Company Ardent Steel Ltd.

Date of Sampling 25-04-2017 Sample Description **Ground Water** Date of Receipt

26-04-2017 Date of Start Analysis 26-04-2017 Sample Collected by

B.K Samantatray Sample Location Office Site Bore Well

GROUND WATER TEST REPORT

SI.No	TANAMETER	UNIT	Desired Limit of drinking water (BIS:10500:2012)	Permissible Limit of drinking water (BIS:10500:2012)	Result
2	Colour	Hazen	5	15	C/I
	Odour	-	Agreeable	Agreeable	C/L
3	Taste	-	Agreeable	Agreeable	AL
4	Turbidity	NTU	1	- yes	AL
5	pH Value @ 25°C	Total Control of the	6.5-8.5	5	< 0.05
6	Total Dissolved Solid	mg/I		No Relaxation	7.65
7	Alkalinity as CaCO ₃		500	2000	420
	Total Hardness as	mg/l	200	600	138
8	CaCO ₃	mg/I	200	600	155
9	Iron as Fe	mg/l	0.3	A S	
10	Nitrate as NO ₃ -N	mg/l		No Relaxation	0.17
11	Sulphate as SO ₄		45	No Relaxation	3.9
12	Fluoride as F	mg/l	200	400	2.1
13	Calcium as Ca	mg/l	1.0	1.5	0.3
14	Chloride as Cl	mg/l	75	200	60
	L- Colorless, U/O- Un-objectional	mg/l	250	1000 .	61

Authorized Sig Notes:

Seal of Laboratory Laboratory

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

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

Date of Monitoring : 25-04-2017
Date of Receipt : 26-04-2017
Date of Start Analysis : 26-04-2017
Sample Collected by : B.K Samantai

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

Stack Height : **30**m

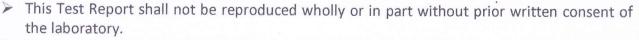
STACK AIR QUALITY REPORT

Sl. No.	Location of Sampling Flue Gas Temp. in K		Concentration of Particulate Matter (PM) in mg/Nm3		
		Result			
01	ESP	446	33		



Notes:





Seal of Laborator

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

Name of Company : Ardent Steel Ltd

Sample Description : Noise Monitoring Report

Date of Monitoring : 24-04-2017
Date of Receipt : 26-04-2017

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)	73.1	68.2	
02 Raw Material Transfer point of Mixture (Mixture Building)		72.5	65.3	

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	







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Reference No : CEMC/ASL/APR F-01/17

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Start Monitoring : 24-04-2017

Date of Respirit

Date of Receipt : 26-04-2017
Date of Start Analysis : 26-04-2017

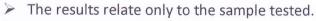
Sample Collected by : B.K Samantaray

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

FUGITIVE EMISSION TEST REPORT (24 HOURLY AVERAGE)

Sl.No.	LOCATION	MONITORING REPORT	
		RSPM (µg/m³)	SPM (µg/m³)
1	Proportioning System (Ash & Coke Fines Bunker)	159	378
2	Raw Material Transfer point of Mixture (Mixture Building)	135	346
3	Ball Mill (Cool Grinding)	125	339
4	Ball Mill (Flux & Coke Grinding)	110	336
5	Finished Product Transfer points and plant de-dusting system	131	360
6	Travelling Grate & Rotary Kiln	101	290
	NAAQ Standard	150 (μg/m³)	500 (μg/m³)

Authorized Signatory
Notes:



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

Name of Company : Ardent Steel Ltd
Sample Description : Ambient Air
Date of Monitoring : 24-04-2017
Date of Receipt : 26-04-2017

Date of Receipt : **26-04-2017**Date of Start Analysis : **26-04-2017**

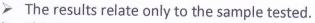
Sample Collected by : B.K Samantaray

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

AMBIENT AIR QUALITY TEST REPORT (24 HOURLY AVERAGE)

SI.No.	LOCATION	MONITORING REPORT					
		PM ₁₀ (μg/m ³)	$PM_{2.5}$ (µg/m ³)	SO ₂ (μg/m ³)	NO _x (μg/m³)	CO (mg/m ³)	NH ₃ (μg/m ³)
1	At the boundary near the water harvesting pond (East Direction)	80.9	44.5	15.2	20.5	<1	BDL
2	At the Boundary near ESP (South Direction)	88.5	47.5	18.2	23.5	<1	BDL
3	At the Boundary near Coal Fines Stock yard (North Direction)	87.6	45.5	14.8	21.5	<1	BDL
	NAAQ Standard	100 (μg/m³)	60 (μg/m³)	80 (μg/m³)	80 (μg/m³)	4.0 (mg/m³)	400 (μg/m³)

Authorized Signatory'



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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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