

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
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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.

Report No. - CEMC/ASL/050222/A

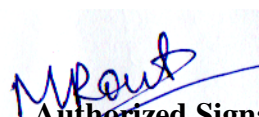
Issued Date-05.02.2022

AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ambient Air
Date of Monitoring : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantray.

ANALYSIS RESULT

Sl. No.	LOCATION	MONITORING REPORT					
		PM ₁₀ ($\mu\text{g}/\text{m}^3$)	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	NO _x ($\mu\text{g}/\text{m}^3$)	CO (mg/m^3)	NH ₃ ($\mu\text{g}/\text{m}^3$)
1	At the boundary near the water harvesting pond (East Direction)	73.4	38.1	13.5	17.3	0.5	<20
2	At the Boundary near ESP (South Direction)	74.6	39.4	13.7	17.8	0.6	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	70.2	36.5	13.1	16.4	0.5	<20
4	Near Ball mill, Iron ore fines stock yard	74.1	38.9	12.8	15.2	0.4	<20
NAAQ Standard-2009		100	60	80	80	4.0	400
Methods of Analysis		IS: 5182 (Part-23)	IS: 5182 (Part-24, 2019)	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS: 5182 (Part-10)	IS: 5182 (Part-25, 2019)


Authorized Signatory
Notes:

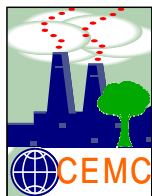


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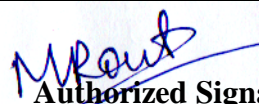
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Sample Description : Ambient Air
Date of Monitoring : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantray.

ANALYSIS RESULT

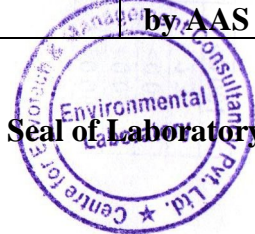
Sl. No.	LOCATION	MONITORING REPORT					
		O3 (µg/m3)	Pb (µg/m3)	Ni (ng/m3)	As (ng/m3)	Benzene (µg/m3)	BaP (ng/m3)
1	At the boundary near the water harvesting pond (East Direction)	<10	<0.06	<0.6	<0.44	<1	<1
2	At the Boundary near ESP (South Direction)	<10	<0.06	<0.6	<0.44	<1	<1
3	At the Boundary near Coal Fines Stock yard (North Direction)	<10	<0.06	<0.6	<0.44	<1	<1
4	Near Ball mill, Iron ore fines stock yard	<10	<0.06	<0.6	<0.44	<1	<1
NAAQ Standard-2009		100	1.0	20	6	5	1
Methods of Analysis		IS: 5182 (Part-9)	IS: 5182 (Part-22)	IS: 5182 (Part-26)	As per CPCB method followed by AAS	IS: 5182 (Part-11)	IS: 5182 (Part-12)



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Seal of Laboratory

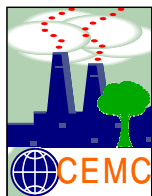


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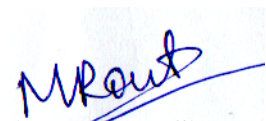
Issued Date-05.02.2022

FUGITIVE EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Fugitive Emission
Date of Monitoring : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantaray.

ANALYSIS RESULT

Sl. No.	LOCATION	RESULT	
		RSPM ($\mu\text{g}/\text{m}^3$)	SPM ($\mu\text{g}/\text{m}^3$)
1	Proportioning System (Ash & Coke Fines Bunker)	374	1192
2	Raw Material Transfer point of Mixture (Mixture Building)	381	1147
3	Ball Mill (Cool Grinding)	356	1135
4	Ball Mill (Flux & Coke Grinding)	362	1206
5	Finished Product Transfer points and plant de-dusting system	319	1158
6	Travelling Grate & Rotary Kiln	405	1224
Standard as per Environment (Protection Act) 3 rd Amendment Rules-2012 by MoEF & CC. at 10 m distance from the source		--	2000*


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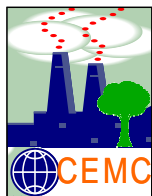


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Report No. - CEMC/ASL/050222/N

Issued Date-05.02.2022

AMBIENT NOISE MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ambient Noise Monitoring
Date of Monitoring : 31.01.2022
Sample Collected by : Mr. B.K.Samantray.

ANALYSIS RESULT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	74.2	68.5
02	Raw Material Transfer point of Mixture (Mixture Building)	73.4	68.2

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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Notes:



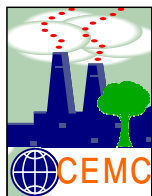
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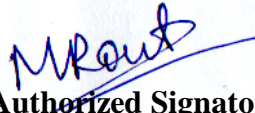
Issued Date-05.02.2022

STACK EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Stack Monitoring
Date of Monitoring : 31.01.2022
Sample Collected by : Mr. B.K.Samantaray.
Stack Height : 30m

ANALYSIS RESULT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm ³
			Result
01	ESP	389	41.7
Permissible Limit as per CTO			50


Authorized Signatory
Notes:

Seal of Laboratory

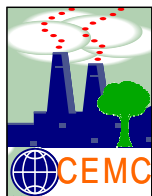


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Report No. - CEMC/ASL/050222/DW

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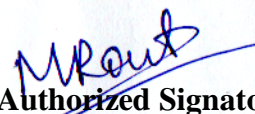
GROUND WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ground Water
Date of Sampling : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantaray.
Sample Location : Canteen(RO Water)

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	<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	6.53
6	Total Dissolved Solid	mg/l	500	2000	52
7	Alkalinity as CaCO ₃	mg/l	200	600	34
8	Total Hardness as CaCO ₃	mg/l	200	600	26
9	Iron as Fe	mg/l	0.3	No Relaxation	0.06
10	Nitrate as NO ₃ ⁻ -N	mg/l	45	No Relaxation	0.19
11	Sulphate as SO ₄	mg/l	200	400	1.3
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	6.06
14	Chloride as Cl ⁻	mg/l	250	1000	2.5

N.B: AL – Agreeable


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Notes:

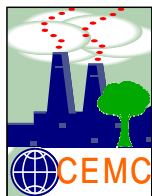


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Report No. - CEMC/ASL/050222/SW

Issued Date-05.02.2022

SURFACE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Surface Water
Date of Sampling : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantaray.
Sample Location : Reservoir

ANALYSIS RESULT

Sl. No	Parameter	Unit	GSR 422E Standards	Result
1	Colour	Hazen	--	5
2	Odour	-	--	U/O
3	pH Value @ 25°C	-	5.5-9.0	6.54
4	Total Dissolved Solid	mg/l	2100	356
5	Iron as Fe	mg/l	3.0	0.41
6	Sulphate as SO ₄	mg/l	1000	13.1
7	Nitrate as NO ₃ ⁻ -N	mg/l	50	14.5
8	Boron as B	mg/l	2.0	0.12
9	BOD for 3 days @ 27°C	mg/l	30	2.4
10	COD	mg/l	250	20

N.B: U/O- Un-objectionable

Authorized Signatory

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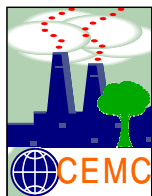


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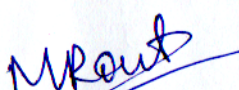
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WASTE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Waste Water
Date of Sampling : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. B.K.Samantaray
Sample Location : STP Outlet

ANALYSIS RESULT

Sl. No.	Parameter	Unit	Effluent Discharge Standard	Testing Method	Result
1.	pH Value @ 25°C	--	6.5-9.0	APHA 4500 H ⁺ B	7.36
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	12.4
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	9.6
4.	COD	mg/l	<50	APHA 5220 C	36
5.	Oil & Grease	mg/l	--	APHA 5520 B	0.8


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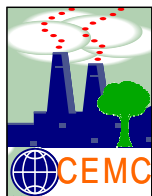


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Report No. - CEMC/ASL/050222/BW

Issued Date-05.02.2022

WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Bore Well Water
Date of Sampling : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. Bhaktahari Dash.
Sample Location : Bore Well

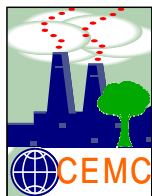
GROUND WATER TEST REPORT

Slr. No.	Parameters	Unit	BW1	BW2	BW3	IS10500:2012	
						Acceptable Limit	Permissible Limit
1	Colour	Hazen	<05	<05	<05	5	15
2	Odour	--	AL	AL	AL	AL	AL
3	Taste	--	AL	AL	AL	AL	AL
4	Turbidity	NTU	<1.0	<1.0	<1.0	1	5
5	pH Value @ 25°C	mg/l	7.53	7.61	7.42	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO ₃)	mg/l	148	156	152	200	600
7	Iron (as Fe)	mg/l	0.24	0.22	0.23	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	35	39	38	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	212	238	224	500	2000
11	Calcium (as Ca)	mg/l	40.08	42.5	41.68	75	200
12	Magnesium (as Mg)	mg/l	11.66	12.15	11.66	30	100
13	Copper (as Cu)	mg/l	<0.03	<0.03	<0.03	0.05	1.5
14	Manganese (as Mn)	mg/l	<0.05	<0.05	<0.05	0.1	0.3
15	Sulphate (as SO ₄)	mg/l	14.1	14.9	14.6	200	400
16	Nitrate (as NO ₃)	mg/l	4.2	5.1	4.9	45	No Relaxation
17	Fluoride (as F)	mg/l	0.16	0.18	0.17	1.0	1.5
18	Phenolic Compounds (as C ₆ H ₅ OH)	mg/l	<0.001	<0.001	<0.001	0.001	0.002
19	Mercury (as Hg)	mg/l	<0.001	<0.001	<0.001	0.001	No Relaxation
20	Cadmium (as Cd)	mg/l	<0.003	<0.003	<0.003	0.003	No Relaxation
21	Selenium (as Se)	mg/l	<0.001	<0.001	<0.001	0.01	No Relaxation
22	Arsenic (as As)	mg/l	<0.001	<0.001	<0.001	0.01	0.05
23	Cyanide (as CN)	mg/l	ND	ND	ND	0.05	No Relaxation
24	Lead (as Pb)	mg/l	<0.01	<0.01	<0.01	0.01	No Relaxation
25	Zinc (as Zn)	mg/l	<0.05	<0.05	<0.05	5	15

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.

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Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101,
E-mail: ccmclab@yahoo.in, Mobile: 9937631956, 8895177314



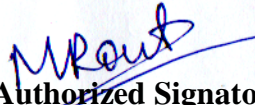
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26	Chromium (as Cr)	mg/l	<0.05	<0.05	<0.05	0.05	No Relaxation
27	Mineral Oil	mg/l	<0.05	<0.05	<0.05	0.5	No Relaxation
28	Total Alkalinity (as CaCO ₃)	mg/l	146	148	144	200	600
29	Aluminium (as Al)	mg/l	<0.01	<0.01	<0.01	0.03	0.2
30	Boron (as B)	mg/l	<0.2	<0.2	<0.2	0.5	1.0
31	Total Coliform	MPN/100ml	Absent	Absent	Absent	Absent in 100 mL Sample	
32	Faecal Coliform	MPN/100ml	Absent	Absent	Absent	Absent in 100 mL Sample	

N.B: AL – Agreeable

END OF REPORT


Authorized Signatory
Notes:

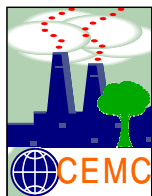


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Report No. - CEMC/ASL/050222/SW

Issued Date-05.02.2022

Name of Company : Ardent Steel Ltd.
Sample Description : Waste material
Date of Monitoring : 31.01.2022
Date of Receiving : 01.02.2022
Date of Analysis : 01.02.2022
Sample Collected by : Mr. Bhaktahari Dash.
Sampling material : Used Oil

ANALYSIS RESULT

Sl. No	Parameter	Unit of measurement	As per HWMR-2016 Schedule-V, Part-A, Max	Used Oil
1	Polychlorinated biphenyls (PCBs)	ppm	<2	ND
2	Cadmium+Chromium+Nickel (as Cd+Cr+Ni)	ppm	500	1.44
3	Lead (as Pb)	ppm	100	0.15
4	Polycyclic Aromatic Hydrocarbon	%	6	ND
5	Arsenic (as As)	ppm	5.0	<0.001

*ND-Not Detected, ppm-parts per million

*The test parameter is within the standard limit

END OF REPORT

Authorized Signatory

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