



CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

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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.

Report No. - CEMC/ASL/251122/A

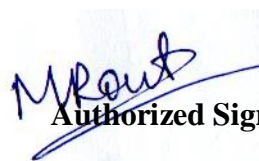
Issued Date-25.11.2022

AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ambient Air
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray

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)	55.8	29.4	9.2	12.6	0.2	<20
2	At the Boundary near ESP (South Direction)	54.2	28.6	10.2	13.8	0.3	<20
3	At the Boundary near Coal Fines Stock yard (North Direction)	51.8	27.6	9.0	12.4	0.5	<20
4	Near Ball mill, Iron ore fines stock yard	56.4	30.2	10.8	13.2	0.5	<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)


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Notes:

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Regd. Office: Plot No.-522/3458, Near Utkal Hyundai, Opposite Apex College, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 9861032826

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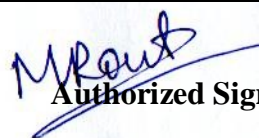
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Sample Description : Ambient Air
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray

Sl. No.	LOCATION	MONITORING REPORT					
		O3 ($\mu\text{g}/\text{m}^3$)	Pb ($\mu\text{g}/\text{m}^3$)	Ni (ng/m^3)	As (ng/m^3)	Benzene ($\mu\text{g}/\text{m}^3$)	BaP (ng/m^3)
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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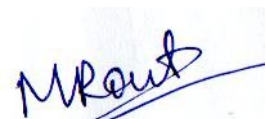
Issued Date-25.11.2022

FUGITIVE EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Fugitive Emission
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
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)	412	986
2	Raw Material Transfer point of Mixture (Mixture Building)	402	1042
3	Ball Mill (Cool Grinding)	336	1094
4	Ball Mill (Flux & Coke Grinding)	438	1055
5	Finished Product Transfer points and plant de-dusting system	348	988
6	Travelling Grate & Rotary Kiln	342	956
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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Report No. - CEMC/ASL/251122/N

Issued Date-25.11.2022

AMBIENT NOISE MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Noise Monitoring
Date of Monitoring : 15.11.2022
Sample Collected by : Mr. B.K.Samantaray

ANALYSIS RESULT

Sl. No.	Location	Noise Level In Day Time dB(A)	Noise Level In Night Time dB(A)
01	Ball Mill (Cool Grinding)	71.0	64.6
02	Raw Material Transfer point of Mixture (Mixture Building)	71.3	65.4

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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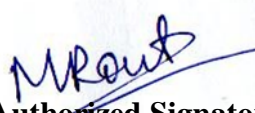
Issued Date-25.11.2022

STACK EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Stack Monitoring
Date of Monitoring : 15.11.2022
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	422	36
Permissible Limit as per CTO			50


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Report No. - CEMC/ASL/251122/DW

Issued Date-25.11.2022


DRINKING WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ground Water
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray
Sample Location : Canteen(RO Water)

ANALYSIS RESULT

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	6.6
6	Total Dissolved Solid	mg/l	500	2000	60.9
7	Alkalinity as CaCO ₃	mg/l	200	600	36
8	Total Hardness as CaCO ₃	mg/l	200	600	32
9	Iron as Fe	mg/l	0.3	No Relaxation	0.1
10	Nitrate as NO ₃ ⁻ -N	mg/l	45	No Relaxation	0.2
11	Sulphate as SO ₄	mg/l	200	400	2.6
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	8.98
14	Chloride as Cl ⁻	mg/l	250	1000	6.9

N.B: AL – Agreeable


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Report No. - CEMC/ASL/251122/SW

Issued Date-25.11.2022

SURFACE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Surface Water
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray
Sample Location : Reservoir

ANALYSIS RESULT

Sl. No	Parameter	Unit	GSR 422E Standards	Result
1	Colour	Hazen	--	10
2	Odour	-	--	U/O
3	pH Value @ 25°C	-	5.5-9.0	6.34
4	Total Dissolved Solid	mg/l	2100	182
5	Iron as Fe	mg/l	3.0	0.32
6	Sulphate as SO ₄	mg/l	1000	12.8
7	Nitrate as NO ₃ ⁻ -N	mg/l	50	15.6
8	Boron as B	mg/l	2.0	0.1
9	BOD for 3 days @ 27°C	mg/l	30	2.2
10	COD	mg/l	250	24

N.B: U/O- Un-objectionable

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Report No. - CEMC/ASL/251122/WW

Issued Date-25.11.2022

WASTE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Waste Water
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
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	6.82
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	14.0
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	8.2
4.	COD	mg/l	<50	APHA 5220 C	32
5.	Oil & Grease	mg/l	--	APHA 5520 B	1.1


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Report No. - CEMC/ASL/251122/BW

Issued Date-25.11.2022

WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Bore Well Water
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray
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	7.11	7.2	7.26	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO ₃)	mg/l	144	140	162	200	600
7	Iron (as Fe)	mg/l	0.22	0.25	0.23	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	34.9	36.9	39.9	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	255	242	250	486	2000
11	Calcium (as Ca)	mg/l	40.4	39.2	45.45	75	200
12	Magnesium (as Mg)	mg/l	10.5	10.2	11.81	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	16.8	14.2	15.8	200	400
16	Nitrate (as NO ₃)	mg/l	4.4	5.4	5.8	45	No Relaxation
17	Fluoride (as F)	mg/l	0.11	0.13	0.1	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

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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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.

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
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	134	140	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:

- 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.
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Seal of Laboratory

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Report No. - CEMC/ASL/251122/SW

Issued Date-25.11.2022

WATER TEST REPORT

Name of Company : Ardent Steel Ltd.
Sample Description : Waste material
Date of Monitoring : 15.11.2022
Date of Receiving : 16.11.2022
Date of Analysis : 16.11.2022
Sample Collected by : Mr. B.K.Samantaray
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	1.03
3	Lead (as Pb)	ppm	100	0.12
4	Polyaromatic 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
Notes:



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