



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.

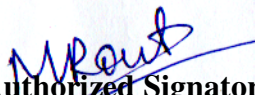
Reference No : CEMC/ASL/Jan -N-01/20
Name of Company : Ardent Steel Ltd.
Sample Description : Noise Monitoring Report
Date of Monitoring : 11.01.2020
Sample Collected by : Mr. B Samantaray

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)	74.7	69.6
02	Raw Material Transfer point of Mixture (Mixture Building)	74.2	68.1

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:



Seal of Laboratory

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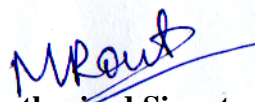
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Reference No : CEMC/ASL/Jan -ST-01/20
Name of Company : Ardent Steel Ltd.
Sample Description : Stack Monitoring
Date of Monitoring : 11.01.2020
Date of Receiving : 13.01.2020
Date of Analysis : 13.01.2020
Sample Collected by : Mr. B Samantaray
Stack Height : 30m

STACK EMISSION REPORT

Sl. No.	Location of Sampling	Flue Gas Temp. in K	Concentration of Particulate Matter (PM) in mg/Nm ³
			Result
01	ESP	381	48.9


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Reference No : CEMC/ASL/Jan-GW-01/20
 Name of Company : Ardent Steel Ltd.
 Sample Description : Ground Water
 Date of Monitoring : 11.01.2020
 Date of Receiving : 13.01.2020
 Date of Analysis : 13.01.2020
 Sample Collected by : Mr. B 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	5.96
6	Total Dissolved Solid	mg/l	500	2000	42
7	Alkalinity as CaCO ₃	mg/l	200	600	30
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	0.13
11	Sulphate as SO ₄	mg/l	200	400	1.1
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	7.21
14	Chloride as Cl ⁻	mg/l	250	1000	2.6

N.B: AL – Agreeable


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Reference No : CEMC/ASL/Jan -SW-01/20
Name of Company : Ardent Steel Ltd.
Sample Description : Surface Water
Date of Monitoring : 11.01.2020
Date of Receiving : 13.01.2020
Date of Analysis : 13.01.2020
Sample Collected by : Mr. B Samantaray
Sample Location : Reservoir

SURFACE WATER TEST REPORT

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	7.02
4	Total Dissolved Solid	mg/l	2100	298.6
5	Iron as Fe	mg/l	3.0	0.32
6	Sulphate as SO ₄	mg/l	1000	13.2
7	Nitrate as NO ₃ ⁻ -N	mg/l	50	12.1
8	Boron as B	mg/l	2.0	0.14
9	BOD for 3 days @ 27°C	mg/l	30	2.0
10	COD	mg/l	250	16

N.B: U/O- Un-objectionable

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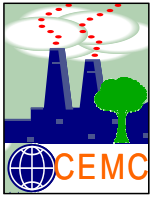
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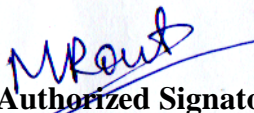
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Reference No : CEMC/ASL/Jan-WW-01/20
Name of Company : Ardent Steel Ltd.
Sample Description : Waste Water
Date of Monitoring : 11.01.2020
Date of Receiving : 13.01.2020
Date of Analysis : 13.01.2020
Sample Collected by : Mr. B Samantaray
Sample Location : 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	7.41
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	14.9
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	40
5.	Oil & Grease	mg/l	--	APHA 5520 B	1.7


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