



# CENTRE FOR ENVOTECH AND MANAGEMENT CONSULTANCY PVT. LTD.

An ISO 9001-2015 & OHSAS 45001:2018 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.

Report No. - CEMC/ASL/120923/DW

Issued Date-12.09.2023

## DRINKING WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.  
Sample Description : Ground Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
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	6.7
6	Total Dissolved Solid	mg/l	500	2000	89
7	Alkalinity as CaCO <sub>3</sub>	mg/l	200	600	52
8	Total Hardness as CaCO <sub>3</sub>	mg/l	200	600	60
9	Iron as Fe	mg/l	0.3	No Relaxation	0.2
10	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	45	No Relaxation	1.4
11	Sulphate as SO <sub>4</sub>	mg/l	200	400	12.8
12	Fluoride as F	mg/l	1.0	1.5	<0.05
13	Calcium as Ca	mg/l	75	200	16.0
14	Chloride as Cl <sup>-</sup>	mg/l	250	1000	21.9

N.B: AL – Agreeable

  
Authorized Signatory

Notes:

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

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

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Report No. - CEMC/ASL/120923/SW

Issued Date-12.09.2023

## SURFACE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.  
Sample Description : Surface Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
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	8.5
4	Total Dissolved Solid	mg/l	2100	928
5	Iron as Fe	mg/l	3.0	1.8
6	Sulphate as SO <sub>4</sub>	mg/l	1000	41.8
7	Nitrate as NO <sub>3</sub> <sup>-</sup> -N	mg/l	50	20.4
8	Boron as B	mg/l	2.0	0.44
9	BOD for 3 days @ 27°C	mg/l	30	26
10	COD	mg/l	250	72

N.B: U/O- Un-objectionable

Authorized Signatory

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Report No. - CEMC/ASL/120923/WW

Issued Date-12.09.2023

## WASTE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.  
Sample Description : Waste Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
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 <sup>+</sup> B	7.5
2.	Total Suspended Solids	mg/l	<20	APHA 2540 D	39.8
3.	B.O.D for 3 days @ 27°C	mg/l	<10	APHA 5210 B	10.4
4.	COD	mg/l	<50	APHA 5220 C	54
5.	Oil & Grease	mg/l	--	APHA 5520 B	3.0

  
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Report No. - CEMC/ASL/120923/BW

Issued Date-12.09.2023

## WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.  
Sample Description : Bore Well Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
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	7.68	7.51	7.23	6.5-8.5	No Relaxation
6	Total Hardness (as CaCO <sub>3</sub> )	mg/l	182	176	180	200	600
7	Iron (as Fe)	mg/l	0.25	0.24	0.27	0.3	No Relaxation
8	Chloride (as Cl)	mg/l	49.9	41.9	39.9	250	1000
9	Residual, free Chlorine	mg/l	ND	ND	ND	0.2	1.0
10	Total Dissolved Solids	mg/l	283	290	274	500	2000
11	Calcium (as Ca)	mg/l	51.06	49.38	50.5	75	200
12	Magnesium (as Mg)	mg/l	13.26	12.83	13.12	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 <sub>4</sub> )	mg/l	21.4	18.6	24.8	200	400
16	Nitrate (as NO <sub>3</sub> )	mg/l	7.2	5.4	8.1	45	No Relaxation
17	Fluoride (as F)	mg/l	0.21	0.12	0.19	1.0	1.5
18	Phenolic Compounds (as C <sub>6</sub> H <sub>5</sub> 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

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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 <sub>3</sub> )	mg/l	150	146	136	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**

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Report No. - CEMC/ASL/120923/SW

Issued Date-12.09.2023

## WASTE TEST REPORT

Name of Company : Ardent Steel Ltd.  
Sample Description : Waste material  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das  
Sampling material : Used Oil

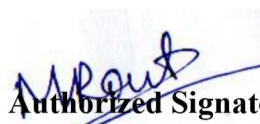
## ANALYSIS RESULT

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	3.8
3	Lead (as Pb)	ppm	100	0.49
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\***

  
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Issued Date-12.09.2023

## WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.  
Sample Description : Waste Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
Sample Location : ETP OUTLET

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Effluent Discharge Standard (a)	Testing Method	Result
1.	pH Value @ 25°C	-	6.5-9.0	APHA 4500 H <sup>+</sup> B	7.22
2.	Total Suspended Solids	mg/l	<100	APHA 2540 D	26.2
3.	B.O.D for 3 days @ 27°C	mg/l	<30	IS 3025(Part-44)	16.2
4.	C.O.D	mg/l	<250	APHA 5220 B	50
5.	Oil & grease	mg/l	<10	APHA 5520 B	<1

**\*END OF REPORT\***

  
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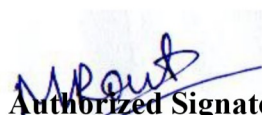
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Sample Description : Waste Water  
Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
Sample Location : STP INLET

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Testing Method	Result
1.	pH Value @ 25°C	-	APHA 4500 H <sup>+</sup> B	6.96
2.	Total Suspended Solids	mg/l	APHA 2540 D	106.4
3.	B.O.D for 3 days @ 27°C	mg/l	IS 3025(Part-44)	120
4.	Faecal Coliform	MPN/100ml	IS 1622	>1600

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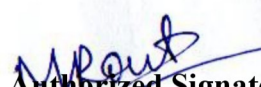
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Date of Monitoring : 28.08.2023  
Date of Receiving : 30.08.2023  
Date of Analysis : 30.08.2023  
Sample Collected by : Mr. Rabindranath Das.  
Sample Location : STP OUTLET

## ANALYSIS RESULT

Sl. No.	Parameter	Unit	Effluent Discharge Standard (a)	Testing Method	Rresult
1.	pH Value @ 25°C	-	6.5-9.0	APHA 4500 H <sup>+</sup> B	7.32
2.	Total Suspended Solids	mg/l	<100	APHA 2540 D	19.8
3.	B.O.D for 3 days @ 27°C	mg/l	<30	IS 3025(Part-44)	21.2
4.	Faecal Coliform	MPN/100ml	<1000	IS 1622	21

**\*END OF REPORT\***

  
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