



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/050523/A

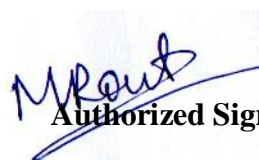
Issued Date-05.05.2023

AMBIENT AIR QUALITY MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ambient Air
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
Sample Collected by : Mr. Rabindranath Das.

ANALYSIS RESULT

| Sl. No. | LOCATION | MONITORING REPORT | | | | | |
|---------------------|---|--|---|---|---|----------------------------|---|
| | | PM ₁₀ (µg/m ³) | PM _{2.5} (µg/m ³) | SO ₂ (µg/m ³) | NO _x (µg/m ³) | CO (mg/m ³) | NH ₃ (µg/m ³) |
| 1 | At the boundary near the water harvesting pond (East Direction) | 70.2 | 38.0 | 16.8 | 20.2 | 0.25 | <20 |
| 2 | At the Boundary near ESP (South Direction) | 64.6 | 34.2 | 13.4 | 17.6 | 0.22 | <20 |
| 3 | At the Boundary near Coal Fines Stock yard (North Direction) | 62.4 | 33.6 | 11.8 | 16.2 | 0.3 | <20 |
| 4 | Near Ball mill, Iron ore fines stock yard | 73.8 | 40.2 | 17.2 | 20.0 | 0.36 | <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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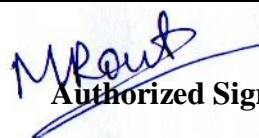
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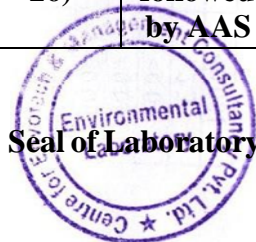
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Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ambient Air
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
Sample Collected by : Mr. Rabindranath Das.

| 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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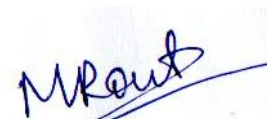
Issued Date-05.05.2023

FUGITIVE EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Fugitive Emission
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
Sample Collected by : Mr. Rabindranath Das.

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) | 504 | 1060 |
| 2 | Raw Material Transfer point of Mixture (Mixture Building) | 452 | 1102 |
| 3 | Ball Mill (Cool Grinding) | 388 | 1170 |
| 4 | Ball Mill (Flux & Coke Grinding) | 492 | 1114 |
| 5 | Finished Product Transfer points and plant de-dusting system | 398 | 998 |
| 6 | Travelling Grate & Rotary Kiln | 394 | 994 |
| 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/050523/N

Issued Date-05.05.2023

AMBIENT NOISE MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Noise Monitoring
Date of Monitoring : 27.04.2023
Sample Collected by : Mr. Rabindranath Das.

ANALYSIS RESULT

| Sl. No. | Location | Noise Level In Day Time dB(A) | Noise Level In Night Time dB(A) |
|---------|---|-------------------------------|---------------------------------|
| 01 | Ball Mill (Cool Grinding) | 84.2 | 79.8 |
| 02 | Raw Material Transfer point of Mixture (Mixture Building) | 79.9 | 72.9 |

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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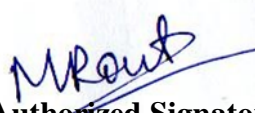
Issued Date-05.05.2023

STACK EMISSION MONITORING TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Stack Monitoring
Date of Monitoring : 27.04.2023
Sample Collected by : Mr. Rabindranath Das.
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 | 391 | 41 |
| Permissible Limit as per CTO | | | 50 |


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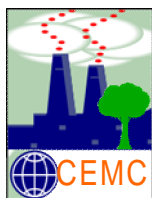
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Report No. - CEMC/ASL/050523/DW

Issued Date-05.05.2023


DRINKING WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Ground Water
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
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 | 68 |
| 7 | Alkalinity as CaCO ₃ | mg/l | 200 | 600 | 48 |
| 8 | Total Hardness as CaCO ₃ | mg/l | 200 | 600 | 50 |
| 9 | Iron as Fe | mg/l | 0.3 | No Relaxation | 0.1 |
| 10 | Nitrate as NO ₃ ⁻ -N | mg/l | 45 | No Relaxation | 0.6 |
| 11 | Sulphate as SO ₄ | mg/l | 200 | 400 | 7.2 |
| 12 | Fluoride as F | mg/l | 1.0 | 1.5 | <0.05 |
| 13 | Calcium as Ca | mg/l | 75 | 200 | 13.6 |
| 14 | Chloride as Cl ⁻ | mg/l | 250 | 1000 | 11.2 |

N.B: AL – Agreeable


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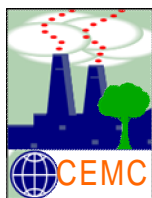
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Report No. - CEMC/ASL/050523/SW

Issued Date-05.05.2023

SURFACE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Surface Water
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
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 | 6.1 |
| 4 | Total Dissolved Solid | mg/l | 2100 | 172 |
| 5 | Iron as Fe | mg/l | 3.0 | 0.4 |
| 6 | Sulphate as SO ₄ | mg/l | 1000 | 16.2 |
| 7 | Nitrate as NO ₃ ⁻ -N | mg/l | 50 | 15.8 |
| 8 | Boron as B | mg/l | 2.0 | 0.14 |
| 9 | BOD for 3 days @ 27°C | mg/l | 30 | 16.2 |
| 10 | COD | mg/l | 250 | 50 |

N.B: U/O- Un-objectionable

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Issued Date-05.05.2023

WASTE WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Waste Water
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
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 ⁺ B | 6.78 |
| 2. | Total Suspended Solids | mg/l | <20 | APHA 2540 D | 34.2 |
| 3. | B.O.D for 3 days @ 27°C | mg/l | <10 | APHA 5210 B | 9.0 |
| 4. | COD | mg/l | <50 | APHA 5220 C | 40 |
| 5. | Oil & Grease | mg/l | -- | APHA 5520 B | 3.0 |


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Report No. - CEMC/ASL/050523/BW

Issued Date-05.05.2023

WATER TEST REPORT

Name of Company : Ardent Steel Ltd., Keonjhar, Odisha.
Sample Description : Bore Well Water
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
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 | 7.14 | 7.22 | 7.1 | 6.5-8.5 | No Relaxation |
| 6 | Total Hardness (as CaCO ₃) | mg/l | 172 | 162 | 170 | 200 | 600 |
| 7 | Iron (as Fe) | mg/l | 0.2 | 0.25 | 0.22 | 0.3 | No Relaxation |
| 8 | Chloride (as Cl) | mg/l | 39.9 | 41.9 | 35.9 | 250 | 1000 |
| 9 | Residual, free Chlorine | mg/l | ND | ND | ND | 0.2 | 1.0 |
| 10 | Total Dissolved Solids | mg/l | 260 | 252 | 266 | 500 | 2000 |
| 11 | Calcium (as Ca) | mg/l | | | | 75 | 200 |
| 12 | Magnesium (as Mg) | mg/l | | | | 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 | 16.6 | 15.2 | 14.8 | 200 | 400 |
| 16 | Nitrate (as NO ₃) | mg/l | 6.2 | 5.8 | 7.0 | 45 | No Relaxation |
| 17 | Fluoride (as F) | mg/l | <0.05 | 0.1 | 0.14 | 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 |

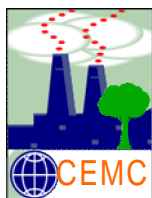
Environmental Studies (EIA & EMP), Monitoring, Forest Diversion Planning, DPR, Wildlife Management Plan, Hazardous & Safety Studies, RS& GIS, Baseline Survey, Hydrological & Geological Studies, Socio-economic Studies, DGPS & ETS Survey.

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

E-mail- cemc_consultancy@yahoo.co.in, cemc122@gmail.com, website: www.cemc.in.

Laboratory At: Plot No. 800/1274, Johal, Pahal, Bhubaneswar-752101, Odisha, India, Mobile: 7752014842

E-mail: cemclab@yahoo.in



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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.

| | | | | | | | |
|----|--|-----------|--------|--------|--------|-------------------------|---------------|
| 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 | 140 | 148 | 124 | 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/050523/SW

Issued Date-05.05.2023

WASTE TEST REPORT

Name of Company : Ardent Steel Ltd.
Sample Description : Waste material
Date of Monitoring : 27.04.2023
Date of Receiving : 29.04.2023
Date of Analysis : 29.04.2023
Sample Collected by : Mr. B.K.Samantaray
Sampling material : Used Oil

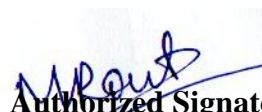
ANALYSIS RESULT

| 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 | 1.5 |
| 3 | Lead (as Pb) | ppm | 100 | 0.36 |
| 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
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