

Ref.: ESPL-HCL/ES/2019-20

Date: 23rd, October 2020

**The Sr. Environmental Engineer**

West Bengal Pollution Control Board  
Asansol Regional Office  
ADDA Commercial Market (2<sup>nd</sup> Floor),  
Oppo. Asansol Fire Station,  
GT Road, Asansol-713301  
Dist-Paschim Burdwan (WB)

**Sub: Environment Statement (FY: 2019-20) of M/s Eloquent Steel Pvt. Limited (Formerly Hira Concast Limited), Vill & PO-Nakrajoria, PS-Salanpur, Dist-Paschim Burdwan (WB)-713357**

Dear Sir,

With reference to above subject we are submitting the Environment Statement (Form-V) for financial year ending 31<sup>st</sup> March, 2020 of M/s Eloquent Steel Pvt. Limited (Formerly Hira Concast Limited), Vill & PO-Nakrajoria, PS-Salanpur, Dist-Paschim Burdwan (WB), for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **Eloquent Steel Pvt. Limited**  
(Formerly Hira Concast Limited)

  
(Authorized Signatory)



Encl: As above.

Copy to: The Dy. Director General of Forests (Central) Eastern Regional Office, Ministry of Environment Forests & Climate Change, A/3, Chandrashekharpur, Bhubaneswar – 751023 (Odisha)

**FORM – V**  
**ENVIRONMENTAL STATEMENT**  
(See rule 14)

**Environmental Statement for the financial year 2019-2020 ending with 31<sup>st</sup> March**

**PART-A**

*i. Name and address of the owner/occupier of the industry operation or process*

**Mr. Deepak Kumar Agarwal**  
**M/s Eloquent Steel Pvt. Limited**  
(Formerly Hira Concast Limited)  
**Vill. & PO. – Nakrajoria,**  
**PS – Salanpur, Dist – Paschim Burdwan (WB),**  
**PIN – 713357**

*ii. Industry category Primary – Large Secondary – Red*

*iii. Production category – Iron & Steel*

*iv. Year of establishment – (Our Group has acquired this establishment in Sept- 2017)*

*v. Date of the last environmental statement submitted* –

**PART – B**

**Water and Raw Material Consumption:**

*i. Water consumption in m<sup>3</sup>/day*

Process: -  
Cooling: 270 m<sup>3</sup>/d  
Domestic: 10 m<sup>3</sup>/d

| Name of Products | Process water consumption (m <sup>3</sup> ) per unit of products |  |
|------------------|--|--|
|                  | During the previous financial year<br>(2018-19)                  | During the current financial year<br>(2019-20) |
| Silico-Manganese | Unit was not in operation  | 1.75 m <sup>3</sup> /T                         |
| Billet           |  | 0.78 m <sup>3</sup> /T                         |



**ii. Raw material consumption**

| Name of raw materials* | Name of Products | Consumption of raw material per unit of output (Kg/T) |   |
|------------------------|------------------|---|---|
|                        |                  | During the previous financial year (2018-19)          | During the current financial year (2019-20) |
| <b>FERRO Division</b>  |                  |   |   |
| Manganese Ore          | Silico-Manganese | Unit was not in operation                             | 2221.08                                     |
| Coal+Coke              |                  |   | 611.57                                      |
| Dolomite               |                  |   | 110.81                                      |
| Quartz                 |                  |   | 57.42                                       |
| <b>SMS Division</b>    |                  |   |   |
| Pig Iron               | MS Billet        | Unit was not in operation                             | 195.17                                      |
| Sponge Iron            |                  |   | 786.45                                      |
| Scrap                  |                  |   | 128.14                                      |

\* **Industry may use codes** if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

**PART-C**

**Pollution discharged to environment/unit of output**  
(Parameter as specified in the consent issued)

**(a) Water**

| Parameters  | Unit | Quantity of Pollutants discharged (mass/day) | Concentration (mass/volume) | Percentage of variation from prescribed standards with reasons |
|---|------|--|-----------------------------|--|
| Leakages, spillages and overflow water goes to water collection pit through Plant Drain Network and reused for Green Belt Development and dust suppression purpose. |      |  |                             |  |

**(b) Ambient Air Quality**

| Pollutants        | Quantity of Pollutants discharged (mass/day) | Concentration of Pollutants discharged ( $\mu\text{g}/\text{m}^3$ ) |                     |                | Percentage of variation from Prescribed standards with reasons |
|-------------------|--|---|---------------------|----------------|--|
|                   |  | Near Admin Building   | Near DVC Meter Room | Dandua Village |  |
| PM <sub>2.5</sub> | Sampling time 24 hours                       | 54.15   | 48.45               | 45.75          | Within range   |
| PM <sub>10</sub>  |  | 88.60   | 83.80               | 76.90          |  |
| SO <sub>2</sub>   |  | 12.85   | 8.10                | 6.50           |  |
| NO <sub>x</sub>   |  | 36.38   | 28.50               | 23.50          |  |

Monitoring reports attached



**(c) Stack Monitoring Data**

| Pollutants | Location           | Concentration of Pollutants discharged (mg/Nm <sup>3</sup> ) | Percentage of variation from prescribed standards with reasons |
|------------|--------------------|--|--|
| PM         | SAF (NO-1) 7.5 MVA | 43.20  | Within the range   |
|            | SAF (NO-2) 5.5 MVA | 38.50  |  |

Monitoring reports attached

**PART – D**

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

| Hazardous Wastes                  | Total Quantity (MT)                         |   |
|-----------------------------------|---|---|
|                                   | During the current financial year (2018-19) | During the current financial year (2019-20) |
| From Process                      | NIL   | NIL   |
| From Pollution Control Facilities | NIL   | NIL   |

**PART – E**

| Solid Wastes                                    | Total Quantity (MT)                          |   |
|---|--|---|
|   | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| From Process                                    | Unit was not in operation                    | 11378                                       |
| From Pollution Control Facilities               |  | 1074  |
| Quantity recycled or reutilized within the unit |  | 1073  |

**PART – F**

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

| Solid waste Type        | Quantity (TPA) | Disposal System   |
|-------------------------|----------------|---|
| Silico-Manganese Slag   | 11329          | Being used as aggregate material for land filling & road making |
| Induction Furnace Slag  | 49             |   |
| BF flue Dust from Ferro | 1073           | Reused in process   |
| BF flue dust from SMS   | 01             | Used for land filling   |



**PART – G**

*Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.*

*List of Environmental Management Programme (EMPs) are given below-*

| <b>Description</b>   | <b>Expenditure for Pollution Control measures on Conservation of Natural Resources (Rs. in lakhs)</b> |
|--|---|
| Total Cost towards Air Pollution Control Measures, Environmental Monitoring, EHS Management & training, Waste Management System, EHS, Green Belt Development (Plantation & Plant Maintenance), CER, etc. | 56.00   |

**PART – H**

*Additional measures/investment proposal for environmental protection including abatement of pollution.*

**Already included in Part G.**

**PART – I**

**MISCELLANEOUS**

*Any other particulars in respect of environmental protection and abatement of pollution.*

- (1) We are complying with the directions given by the WBPCB, and getting regular Air & Water consents.
- (2) Periodic Environmental Monitoring being done by NABL accredited laboratory to ascertain the efficiency of pollution control systems installed.

**Enclosure List:**

- 1) Copies of analysis report.





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly Known as - Hira Concast Ltd.)  | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 10.02.2020 - 11.02.2020  |
|                           |  | Analysis completed on                       | : 12.02.2020 - 13.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 601/EC/M/A/IV  | Report No.                                  | : 601/EC/M/TR(A)/IV/19-20  |

### A) GENERAL INFORMATION

1. Location of Sampling : Near Administrative Buildings
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 71.2
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

| SL. NO. | PARAMETERS                               | UNIT              | METHOD NO.  | RESULTS |
|---------|--|-------------------|---|---------|
| 1.      | Concentration of PM <sub>2.5</sub>       | µg/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L : 2006  | 54.15   |
| 2.      | Concentration of PM <sub>10</sub>        | µg/m <sup>3</sup> | IS 5182 (PART 23) : 2006  | 88.60   |
| 3.      | Concentration of SO <sub>2</sub>         | µg/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007:<br>Sec. 11 (Vol. 11.07) : 2011                    | 12.85   |
| 4.      | Concentration of NO <sub>2</sub>         | µg/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 :<br>Sec. 11 (Vol. 11.07) : 2011                   | 36.38   |
| 5.      | Concentration of CO                      | mg/m <sup>3</sup> | IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94<br>reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011 | 0.23    |
| 6.      | Concentration of Pb                      | µg/m <sup>3</sup> | IS 5182 (Part 22) 2004  | <0.01   |
| 7.      | Benzo (a) Pyrene (BaP)                   | ng/m <sup>3</sup> | IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 :<br>Sec. 11 (Vol. 11.07) : 2011                | <0.36   |
| 8.      | Benzene (C <sub>6</sub> H <sub>6</sub> ) | µg/m <sup>3</sup> | IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 :<br>Sec. 11 (Vol. 11.07) : 2011                  | <0.74   |
| 9.      | Ozone (O <sub>3</sub> )                  | µg/m <sup>3</sup> | IS 5182 (Part-IX) : 1974  | <10.0   |
| 10.     | Ammonia (NH <sub>3</sub> )               | µg/m <sup>3</sup> | NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015,<br>issue 2                  | <4.18   |
| 11.     | Nickel (Ni)                              | ng/m <sup>3</sup> | EPA IO 3.2, 1999  | <0.02   |
| 12.     | Arsenic (As)                             | ng/m <sup>3</sup> | EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017   | <0.01   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891 / 25497490 ■ Fax : 033 25299141  
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## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly Known as - Hira Concast Ltd.)  | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 10.02.2020 - 11.02.2020  |
|                           |  | Analysis completed on                       | : 12.02.2020 - 13.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 601/EC/M/A/VI  | Report No.                                  | : 601/EC/M/TR(A)/VI/19-20  |

### A] GENERAL INFORMATION

1. Location of Sampling : Near DVC Meter Room (Back Side of the Plant)
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature ( $^{\circ}$ C) : 23.58
2. Average Relative Humidity (%) : 75.25
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

| SL. NO. | PARAMETERS                         | UNIT                   | METHOD NO.   | RESULTS |
|---------|------------------------------------|------------------------|--|---------|
| 1.      | Concentration of PM <sub>2.5</sub> | $\mu$ g/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L  | 48.45   |
| 2.      | Concentration of PM <sub>10</sub>  | $\mu$ g/m <sup>3</sup> | IS 5182 (PART 23) : 2006   | 83.80   |
| 3.      | Concentration of SO <sub>2</sub>   | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved<br>2007: Sec. 11 (Vol. 11.07) : 2011 | 8.10    |
| 4.      | Concentration of NO <sub>2</sub>   | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved<br>2005 : Sec 11 (Vol. 11.07) : 2011 | 28.50   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly Known as - Hira Concast Ltd.)  | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 10.02.2020 - 11.02.2020  |
|                           |  | Analysis completed on                       | : 12.02.2020 - 13.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 601/EC/M/A/VII   | Report No.                                  | : 601/EC/M/TR(A)/VII/19-20 |

### A] GENERAL INFORMATION

1. Location of Sampling : Dandua Village (1.0 km Distance from Plant)
2. Duration of Sampling : 24 hrs. (11:30 a.m. - 11:30 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 22.56
2. Average Relative Humidity (%) : 78.50
3. Barometric Pressure (mm of Hg) : 756.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

| SL. NO. | PARAMETERS                         | UNIT              | METHOD NO.   | RESULTS |
|---------|------------------------------------|-------------------|--|---------|
| 1.      | Concentration of PM <sub>2.5</sub> | µg/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L  | 45.75   |
| 2.      | Concentration of PM <sub>10</sub>  | µg/m <sup>3</sup> | IS 5182 (PART 23) : 2006   | 76.90   |
| 3.      | Concentration of SO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved<br>2007: Sec. 11 (Vol. 11.07) : 2011 | 6.50    |
| 4.      | Concentration of NO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved<br>2005 : Sec 11 (Vol. 11.07) : 2011 | 23.50   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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## TEST REPORT

FORMAT NO : ENV/FM/38

|                           |   |   |                            |
|---------------------------|---|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly Known as - Hira Concast Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman | Sampling Date                               | : 10.02.2020               |
|                           |   | Analysis completed on                       | : 12.02.2020 - 13.02.2020  |
|                           |   | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01  | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 601/EC/M/A/I  | Report No.                                  | : 601/EC/M/TR(A)/1/19-20   |
|                           |   | Type of Sample                              | : Source Emission          |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

|                           |                         |  |        |
|---------------------------|-------------------------|--|--------|
| Stack Attached to         | : SEAF (No.1) (7.5 MVA) | Height of Stack (mtr.) (from G.L.)         | : 36.0 |
| Shape of Stack            | : Circular              | Stack I.D. at sampling point (mtr.)        | : 1.60 |
| Materials of Construction | : M.S.                  | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Capacity                  | : 7.5 MVA               |  |        |
| Emission Due to           | : Reduction of Mn-Ore   |  |        |
| Fuel Used                 | : Electrically Operated | Permanent Platform & Ladder                | : Yes  |
| Working Fuel Consumption  | : Nil                   |  |        |
| Pollution Control Device  | : Bag Filter            |  |        |

### B. RESULTS

| SL. NO. | PARAMETERS                          | UNIT                 | METHOD NO.  | RESULTS  |
|---------|-------------------------------------|----------------------|---|----------|
| 1.      | Flue Gas Temperature                | °C                   | IS : 11255 (Part 1)   | 66.2     |
| 2.      | Barometric Pressure                 | mm of Hg.            | --  | 756.0    |
| 3.      | Velocity of Gas flow                | m/s                  | IS : 11255 (Part 3)   | 12.15    |
| 4.      | Quantity of Gas flow                | Nm <sup>3</sup> /hr. | IS : 11255 (Part III)   | 78925.24 |
| 5.      | Concentration of SO <sub>2</sub>    | mg/Nm <sup>3</sup>   | IS 11255 (Part 2) 1985 RA 2003  | 223.80   |
| 6.      | Concentration of CO <sub>2</sub>    | % (v/v)              | IS 13270 1992 RA 2003   | 1.4      |
| 7.      | Concentration of CO                 | % (v/v)              | IS 13270 1992 RA 2003   | <1.0     |
| 8.      | Concentration of Particulate Matter | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011 | 43.20    |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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## TEST REPORT

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|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly Known as - Hira Concast Ltd.)  | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 10.02.2020               |
|                           |  | Analysis completed on                       | : 12.02.2020 - 13.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 601/EC/M/A/II  | Report No.                                  | : 601/EC/M/TR(A)/II/19-20  |
|                           |  | Type of Sample                              | : Source Emission          |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

|                           |                         |  |        |
|---------------------------|-------------------------|--|--------|
| Stack Attached to         | : SEAF (No.2) (5.5 MVA) | Height of Stack (mtr.) (from G. L.)        | : 36.0 |
| Shape of Stack            | : Circular              | Stack I.D. at sampling point (mtr.)        | : 2.0  |
| Materials of Construction | : M.S.                  | Height of sampling port (mtr.) (from G.L.) | : 30.0 |
| Capacity                  | : 5.5 MVA               |  |        |
| Emission Due to           | : Reduction of Mn-Ore   |  |        |
| Fuel Used                 | : Electrically Operated | Permanent Platform & Ladder                | : Yes  |
| Working Fuel Consumption  | : Nil                   |  |        |
| Pollution Control Device  | : Bag Filter            |  |        |

### B. RESULTS

| SL. NO. | PARAMETERS                          | UNIT                 | METHOD NO.  | RESULTS    |
|---------|-------------------------------------|----------------------|---|------------|
| 1.      | Flue Gas Temperature                | °C                   | IS : 11255 (Part 1)   | : 82.0     |
| 2.      | Barometric Pressure                 | mm of Hg.            | --  | : 756.0    |
| 3.      | Velocity of Gas flow                | m/s                  | IS : 11255 (Part 3)   | : 9.12     |
| 4.      | Quantity of Gas flow                | Nm <sup>3</sup> /hr. | IS : 11255 (Part III)   | : 86049.97 |
| 5.      | Concentration of SO <sub>2</sub>    | mg/Nm <sup>3</sup>   | IS 11255 (Part 2) 1985 RA 2003  | : 171.70   |
| 6.      | Concentration of CO <sub>2</sub>    | % (v/v)              | IS 13270 1992 RA 2003   | : 1.2      |
| 7.      | Concentration of CO                 | % (v/v)              | IS 13270 1992 RA 2003   | : <1.0     |
| 8.      | Concentration of Particulate Matter | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011 | : 38.50    |

Remarks :

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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E-mail : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com ■ Website : www.envirocheck.org  
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi  
Overseas : UAE ■ Qatar ■ Netherlands

Ref.: ESPL-ISL/ES/2019-20

Date: 23rd, October 2020

**The Sr. Environmental Engineer**

West Bengal Pollution Control Board  
Asansol Regional Office  
ADDA Commercial Market (2<sup>nd</sup> Floor),  
Oppo. Asansol Fire Station,  
GT Road, Asansol-713301  
Dist-Paschim Burdwan (WB)

**Sub: Environment Statement (FY: 2019-20) of M/s Eloquent Steel Pvt. Limited (Formerly Impex Steel Limited), Vill & PO-Nakrajoria, PS-Salanpur, Dist-Paschim Burdwan (WB)-713357**

Dear Sir,

With reference to above subject we are submitting the Environment Statement (Form-V) for financial year ending 31<sup>st</sup> March, 2020 of M/s Eloquent Steel Pvt. Limited (Formerly Impex Steel Limited), Vill & PO-Nakrajoria, PS-Salanpur, Dist-Paschim Burdwan (WB), for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **Eloquent Steel Pvt. Limited**  
(Formerly Impex Steel Limited)

  
(Authorized Signatory)



Encl: As above.

Copy to: The Dy. Director General of Forests (Central) Eastern Regional Office, Ministry of Environment Forests & Climate Change, A/3, Chandrashekharpur, Bhubaneswar – 751023 (Odisha)

**FORM – V**  
**ENVIRONMENTAL STATEMENT**  
(See rule 14)

**Environmental Statement for the financial year 2019-2020 ending with 31<sup>st</sup> March**

**PART-A**

*i. Name and address of the owner/occupier of the industry operation or process*

**Mr. Deepak Kumar Agarwal**  
**M/s Eloquent Steel Pvt. Limited**  
(Formerly Impex Steel Limited)  
**Vill. & PO. – Nakrajoria,**  
**PS – Salanpur, Dist – Paschim Burdwan (WB),**  
**PIN – 713357**

*ii. Industry category Primary – Large Secondary – Red*

*iii. Production category – Iron & Steel*

*iv. Year of establishment – (Our Group has acquired this establishment in December- 2017)*

*v. Date of the last environmental statement submitted* –

**PART – B**

**Water and Raw Material Consumption:**

*i. Water consumption in m<sup>3</sup>/day*

Process: -  
Cooling: 280 m<sup>3</sup>/d  
Domestic: 10 m<sup>3</sup>/d

| Name of Products | Process water consumption (m <sup>3</sup> ) per unit of products |  |
|------------------|--|--|
|                  | During the previous financial year<br>(2018-19)                  | During the current financial year<br>(2019-20) |
| Silico-Manganese | 1.92   | 1.73 m <sup>3</sup> /T                         |
| Billet           | Unit was not in operation  | 1.01 m <sup>3</sup> /T                         |



**ii. Raw material consumption**

| Name of raw materials* | Name of Products | Consumption of raw material per unit of output (Kg/T) |   |
|------------------------|------------------|---|---|
|                        |                  | During the previous financial year (2018-19)          | During the current financial year (2019-20) |
| <b>FERRO Division</b>  |                  |   |   |
| Manganese Ore          | Silico-Manganese | 2202.79   | 2235.72                                     |
| Coal+Coke              |                  | 772.19  | 627.05                                      |
| Dolomite               |                  | 149.50  | 121.34                                      |
| Quartz                 |                  | 00.00   | 46.86                                       |
| <b>SMS Division</b>    |                  |   |   |
| Pig Iron               | MS Billet        | Unit was not in operation                             | 141.02                                      |
| Sponge Iron            |                  |   | 878.69                                      |
| Scrap                  |                  |   | 129.28                                      |

\* **Industry may use codes** if disclosing details of raw material would violate contractual obligations, otherwise all industries have to name the raw materials used.

**PART-C**

**Pollution discharged to environment/unit of output**  
(Parameter as specified in the consent issued)

**(a) Water**

| Parameters  | Unit | Quantity of Pollutants discharged (mass/day) | Concentration (mass/volume) | Percentage of variation from prescribed standards with reasons |
|---|------|--|-----------------------------|--|
| Leakages, spillages and overflow water goes to water collection pit through Plant Drain Network and reused for Green Belt Development and dust suppression purpose. |      |  |                             |  |

**(b) Ambient Air Quality**

| Pollutants        | Quantity of Pollutants discharged (mass/day) | Concentration of Pollutants discharged ( $\mu\text{g}/\text{m}^3$ ) |                |   |                    | Percentage of variation from Prescribed standards with reasons |
|-------------------|--|---|----------------|---|--------------------|--|
|                   |  | Near Admin Building   | Near Main Gate | Near MCC Room Building (Back side of the Plant) | Nakrajoria Village |  |
| PM <sub>2.5</sub> | Sampling time 24 hours                       | 48.25   | 54.10          | 49.28   | 46.25              | Within the range   |
| PM <sub>10</sub>  |  | 80.10   | 89.75          | 80.15   | 76.50              |  |
| SO <sub>2</sub>   |  | 8.20  | 10.00          | 6.89  | 6.80               |  |
| NO <sub>x</sub>   |  | 25.00   | 36.23          | 25.00   | 23.20              |  |

Monitoring reports attached



**(c) Stack Monitoring Data**

| Pollutants | Location           | Concentration of Pollutants discharged (mg/Nm <sup>3</sup> ) | Percentage of variation from prescribed standards with reasons |
|------------|--------------------|--|--|
| PM         | SAF (NO-1) 7.5 MVA | 42.80  | Within the range   |
|            | SAF (NO-2) 5.5 MVA | 32.50  |  |
|            | Ind. Furnace       | 36.20  |  |

Monitoring reports attached

**PART – D**

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

| Hazardous Wastes                  | Total Quantity (MT)                         |   |
|-----------------------------------|---|---|
|                                   | During the current financial year (2018-19) | During the current financial year (2019-20) |
| From Process                      | NIL   | NIL   |
| From Pollution Control Facilities | NIL   | NIL   |

**PART – E**

| Solid Wastes                                    | Total Quantity (MT)                          |   |
|---|--|---|
|   | During the previous financial year (2018-19) | During the current financial year (2019-20) |
| From Process                                    | 9906   | 24381                                       |
| From Pollution Control Facilities               | 938  | 1932  |
| Quantity recycled or reutilized within the unit | 938  | 1826  |

**PART – F**

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

| Solid waste Type        | Quantity (TPA) | Disposal System   |
|-------------------------|----------------|---|
| Silico-Manganese Slag   | 19277          | Being used as aggregate material for land filling & road making |
| Induction Furnace Slag  | 5104           |   |
| BF flue Dust from Ferro | 1826           | Reused in process   |
| BF flue dust from SMS   | 106            | Used for land filling   |



**PART – G**

*Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.*

*List of Environmental Management Programme (EMPs) are given below-*

| Description  | Expenditure for Pollution Control measures on Conservation of Natural Resources (Rs. in lakhs) |
|--|--|
| Total Cost towards Air Pollution Control Measures, Environmental Monitoring, EHS Management & training, Waste Management System, EHS, Green Belt Development (Plantation & Plant Maintenance), CER, etc. | 20.00  |

**PART – H**

*Additional measures/investment proposal for environmental protection including abatement of pollution.*

**Already included in Part G.**

**PART – I**

**MISCELLANEOUS**

*Any other particulars in respect of environmental protection and abatement of pollution.*

- (1) We are complying with the directions given by the WBPCB, and getting regular Air & Water consents.
- (2) Periodic Environmental Monitoring being done by NABL accredited laboratory to ascertain the efficiency of pollution control systems installed

**Enclosure List:**

- 1) Copies of analysis report.





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB  
 Accredited by NABL (ISO/IEC 17025:2017)  
 Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020 - 14.02.2020  |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/IV  | Report No.                                  | : 602/EC/M/TR(A)/IV/19-20  |

### A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Building
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature ( $^{\circ}$ C) : 24.5
2. Average Relative Humidity (%) : 68.56
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

| SL. NO. | PARAMETERS                               | UNIT                   | METHOD NO.  | RESULTS |
|---------|--|------------------------|---|---------|
| 1.      | Concentration of PM <sub>2.5</sub>       | $\mu$ g/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L : 2006  | 48.25   |
| 2.      | Concentration of PM <sub>10</sub>        | $\mu$ g/m <sup>3</sup> | IS 5182 (PART 23) : 2006  | 80.10   |
| 3.      | Concentration of SO <sub>2</sub>         | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007:<br>Sec. 11 (Vol. 11.07) : 2011                    | 8.20    |
| 4.      | Concentration of NO <sub>2</sub>         | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 :<br>Sec. 11 (Vol. 11.07) : 2011                   | 25.0    |
| 5.      | Concentration of CO                      | mg/m <sup>3</sup>      | IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94<br>reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011 | 0.21    |
| 6.      | Concentration of Pb                      | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 22) 2004  | <0.01   |
| 7.      | Benzo (a) Pyrene (BaP)                   | ng/m <sup>3</sup>      | IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 :<br>Sec. 11 (Vol. 11.07) : 2011                | <0.36   |
| 8.      | Benzene (C <sub>6</sub> H <sub>6</sub> ) | $\mu$ g/m <sup>3</sup> | IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 :<br>Sec. 11 (Vol. 11.07) : 2011                  | <0.74   |
| 9.      | Ozone (O <sub>3</sub> )                  | $\mu$ g/m <sup>3</sup> | IS 5182 (Part-IX) : 1974  | <10.0   |
| 10.     | Ammonia (NH <sub>3</sub> )               | $\mu$ g/m <sup>3</sup> | NIOSH Manual of Analytical Method, 4 <sup>th</sup> Edition 1994, Method 6015,<br>issue 2                  | <4.18   |
| 11.     | Nickel (Ni)                              | ng/m <sup>3</sup>      | EPA IO 3.2, 1999  | <0.02   |
| 12.     | Arsenic (As)                             | ng/m <sup>3</sup>      | EPA IO 3.2, 1999, APHA 23 <sup>rd</sup> Ed 3114C : 2017   | <0.01   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |   |   |                            |
|---------------------------|---|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)    | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman | Sampling Date                               | : 13.02.2020 - 14.02.2020  |
|                           |   | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |   | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01  | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/V  | Report No.                                  | : 602/EC/M/TR(A)/V/19-20   |

### A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:50 a.m. - 09:50 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 72.8
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

| SL. NO. | PARAMETERS                         | UNIT              | METHOD NO.   | RESULTS |
|---------|------------------------------------|-------------------|--|---------|
| 1.      | Concentration of PM <sub>2.5</sub> | µg/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L  | 54.10   |
| 2.      | Concentration of PM <sub>10</sub>  | µg/m <sup>3</sup> | IS 5182 (PART 23) : 2006   | 89.75   |
| 3.      | Concentration of SO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved<br>2007: Sec. 11 (Vol. 11.07) : 2011 | 10.0    |
| 4.      | Concentration of NO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved<br>2005 : Sec 11 (Vol. 11.07) : 2011 | 36.23   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020 - 14.02.2020  |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/VII   | Report No.                                  | : 602/EC/M/TR(A)/VII/19-20 |

### A) GENERAL INFORMATION

1. Location of Sampling : Near M.C.C. Building (Back Side of the Plant)
2. Duration of Sampling : 24 hrs. (10:40 a.m. - 10:40 a.m.)

### B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 24.5
2. Average Relative Humidity (%) : 74.8
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C) RESULTS

| SL. NO. | PARAMETERS                         | UNIT              | METHOD NO.   | RESULTS |
|---------|------------------------------------|-------------------|--|---------|
| 1.      | Concentration of PM <sub>2.5</sub> | µg/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L  | 49.28   |
| 2.      | Concentration of PM <sub>10</sub>  | µg/m <sup>3</sup> | IS 5182 (PART 23) : 2006   | 80.15   |
| 3.      | Concentration of SO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved<br>2007: Sec. 11 (Vol. 11.07) : 2011 | 6.89    |
| 4.      | Concentration of NO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved<br>2005 : Sec 11 (Vol. 11.07) : 2011 | 25.0    |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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## TEST REPORT

FORMAT NO : ENV/FM/37

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020 - 14.02.2020  |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/VI  | Report No.                                  | : 602/EC/M/TR(A)/VI/19-20  |

### A] GENERAL INFORMATION

1. Location of Sampling : Nakrajoria Village (1 km. Distance from Plant)
2. Duration of Sampling : 24 hrs. (10:20 a.m. - 10:20 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.5
2. Average Relative Humidity (%) : 78.2
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear sky

### C] RESULTS

| SL. NO. | PARAMETERS                         | UNIT              | METHOD NO.   | RESULTS |
|---------|------------------------------------|-------------------|--|---------|
| 1.      | Concentration of PM <sub>2.5</sub> | µg/m <sup>3</sup> | USEPA 1997a, 40 CFR Part 50, Appendix L  | 46.25   |
| 2.      | Concentration of PM <sub>10</sub>  | µg/m <sup>3</sup> | IS 5182 (PART 23) : 2006   | 76.50   |
| 3.      | Concentration of SO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved<br>2007: Sec. 11 (Vol. 11.07) : 2011 | 6.80    |
| 4.      | Concentration of NO <sub>2</sub>   | µg/m <sup>3</sup> | IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved<br>2005 : Sec 11 (Vol. 11.07) : 2011 | 23.20   |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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Accredited by NABL (ISO/IEC 17025:2017)  
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/3B

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020               |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/I   | Report No.                                  | : 602/EC/M/TR(A)/I/19-20   |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

|                           |   |
|---------------------------|---|
| Stack Attached to         | : SEAF (No.1) Through APC system                    |
| Shape of Stack            | : Circular  |
| Materials of Construction | : M.S.  |
| Capacity                  | : 7.5 MVA   |
| Emission Due to           | : Combustion of Coke & Reduction of Mn-Ore          |
| Fuel Used                 | : Electrically Operated                             |
| Working Fuel Consumption  | : Nil   |
| Pollution Control Device  | : Bag Filter (2 nos.) [756 bags in each Bag Filter] |

### B. RESULTS

| SL. NO. | PARAMETERS                          | UNIT                 | METHOD NO.  | RESULTS    |
|---------|-------------------------------------|----------------------|---|------------|
| 1.      | Flue Gas Temperature                | °C                   | IS : 11255 (Part 1)   | : 66.2     |
| 2.      | Barometric Pressure                 | mm of Hg.            | --  | : 756.0    |
| 3.      | Velocity of Gas flow                | m/s                  | IS : 11255 (Part 3)   | : 12.5     |
| 4.      | Quantity of Gas flow                | Nm <sup>3</sup> /hr. | IS : 11255 (Part III)   | : 78925.24 |
| 5.      | Concentration of SO <sub>2</sub>    | mg/Nm <sup>3</sup>   | IS 11255 (Part 2) 1985 RA 2003  | : 120.50   |
| 6.      | Concentration of CO <sub>2</sub>    | % (v/v)              | IS 13270 1992 RA 2003   | : 1.4      |
| 7.      | Concentration of CO                 | %(v/v)               | IS 13270 1992 RA 2003   | : <1.0     |
| 8.      | Concentration of Particulate Matter | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011 | : 42.80    |

Remarks :

Reviewed By :

(Durbadal Chakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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Overseas : UAE ■ Qatar ■ Netherlands



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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/3B

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020               |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/II  | Report No.                                  | : 602/EC/M/TR(A)/II/19-20  |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

|                           |   |
|---------------------------|---|
| Stack Attached to         | : SEAF (No.2) Through APC system                    |
| Shape of Stack            | : Circular  |
| Materials of Construction | : M.S.  |
| Capacity                  | : 7.5 MVA   |
| Emission Due to           | : Combustion of Coke & Reduction of Mn-Ore          |
| Fuel Used                 | : Electrically Operated                             |
| Working Fuel Consumption  | : Nil   |
| Pollution Control Device  | : Bag Filter (2 nos.) [756 bags in each Bag Filter] |

### B. RESULTS

| SL. NO. | PARAMETERS                          | UNIT                 | METHOD NO.  | RESULTS  |
|---------|-------------------------------------|----------------------|---|----------|
| 1.      | Flue Gas Temperature                | °C                   | IS : 11255 (Part 1)   | 69.0     |
| 2.      | Barometric Pressure                 | mm of Hg.            | --  | 757.0    |
| 3.      | Velocity of Gas flow                | m/s                  | IS : 11255 (Part 3)   | 14.36    |
| 4.      | Quantity of Gas flow                | Nm <sup>3</sup> /hr. | IS : 11255 (Part III)   | 90129.47 |
| 5.      | Concentration of SO <sub>2</sub>    | mg/Nm <sup>3</sup>   | IS 11255 (Part 2) 1985 RA 2003  | 620.0    |
| 6.      | Concentration of CO <sub>2</sub>    | % (v/v)              | IS 13270 1992 RA 2003   | 1.6      |
| 7.      | Concentration of CO                 | %(v/v)               | IS 13270 1992 RA 2003   | <1.0     |
| 8.      | Concentration of Particulate Matter | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011 | 32.50    |

Remarks :

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul)  
(Quality Manger)

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 Overseas : UAE ■ Qatar ■ Netherlands



# ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



## TEST REPORT

FORMAT NO : ENV/FM/38

|                           |  |   |                            |
|---------------------------|--|---|----------------------------|
| Name of the Industry      | : Eloquent Steel Pvt. Ltd.<br>(Formerly known as - Impex Steel Ltd.)   | Type of Industry                            | : Ferro Alloy and SMS Unit |
| Address                   | : Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - PaschimBardhaman | Sampling Date                               | : 13.02.2020               |
|                           |  | Analysis completed on                       | : 15.02.2020 - 15.02.2020  |
|                           |  | Date of Issue                               | : 20.02.2020               |
| Sampling Plan & Procedure | : ENV/SOP/01   | Deviation from the Sampling Method and Plan | : No                       |
| Sample ID No.             | : 602/EC/M/A/III   | Report No.                                  | : 602/EC/M/TR(A)/III/19-20 |

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

|                           |   |
|---------------------------|---|
| Stack Attached to         | : Hood Over Induction Furnace (2 x 7 MT/Batch) attached to common stack |
| Shape of Stack            | : Circular  |
| Materials of Construction | : M.S.  |
| Capacity                  | : 2 x 7 MT/Batch (1 Batch = 2 hrs.)                                     |
| Emission Due to           | : Melting of Sponge, Pig Iron and Scrap                                 |
| Fuel Used                 | : Electrically Operated   |
| Working Fuel Consumption  | : Nil   |
| Pollution Control Device  | : Bag Filter  |

### B. RESULTS

| SL. NO. | PARAMETERS                          | UNIT                 | METHOD NO.  | RESULTS  |
|---------|-------------------------------------|----------------------|---|----------|
| 1.      | Flue Gas Temperature                | °C                   | IS : 11255 (Part 1)   | 44.5     |
| 2.      | Barometric Pressure                 | mm of Hg.            | --  | 756.0    |
| 3.      | Velocity of Gas flow                | m/s                  | IS : 11255 (Part 3)   | 10.26    |
| 4.      | Quantity of Gas flow                | Nm <sup>3</sup> /hr. | IS : 11255 (Part III)   | 32712.27 |
| 5.      | Concentration of Particulate Matter | mg/Nm <sup>3</sup>   | IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011 | 36.20    |

Remarks :

Reviewed By :

(DurbadalChakraborty)  
(Dy. Quality Manager)

Approved By :

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