



SHAKAMBHARI
GROUP

ELOQUENT STEEL PRIVATE LIMITED

CIN: U51909WB2012PTC185734 | GSTIN: 19AADCE1766F1ZN | PAN: AADCE1766F | LEI NO. 335800T2GAD2D636XG79

Ref.: ESPL-HCL/ES/2020-21

Date: 26.10.2021

The Sr. Environmental Engineer

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

Sub: Environment Statement (FY: 2020-21) 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 31st March, 2021 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 IGF & Incharge, GOI, MoEF&CC, Integrated Regional Office, Kolkata, IB-198, Salt Lake City, Sector-III, Kolkata- 700106

FORM – V
ENVIRONMENTAL STATEMENT
(See rule 14)

Environmental Statement for the financial year 2020-2021 ending with 31st 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: 23rd Oct 2020

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: -
Cooling: 270 m³/d
Domestic: 10 m³/d

Name of Products	Process water consumption (m ³) per unit of products	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Silico-Manganese	1.75 m ³ /T	1.67 m ³ /T
Ferro Manganese	-	
Billet	0.78 m ³ /T	0.96 m ³ /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 (2019-20)	During the current financial year (2020-21)
FERRO Division			
Manganese Ore	Fe-Mn, &	-	2490.00
Coal+Coke		-	681.00
Dolomite		-	66.00
Manganese Ore	Si-Mn	2221.08	1878.00
High Manganese Slag		0	543.32
Coal+Coke		611.57	755.00
Dolomite		110.81	66.00
Quartz/Gravels		57.42	318.60
SMS Division			
Pig Iron	MS Billet	195.17	97.23
Sponge Iron		786.45	845.98
Scrap		128.14	170.62
Ferro Shots		-	84.36
Silico Manganese		-	11.47
Ferro Manganese		-	2.31
Ferro Silicon		-	0.18

* **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 DVC Meter Room	Dendua Village	
PM _{2.5}	Sampling time 24 hours	49.83	48.07	41.70	44.78	Within range
PM ₁₀		83.56	88.06	78.00	76.21	
SO ₂		6.82	7.04	6.00	6.61	
NO _x		25.40	24.86	22.86	20.17	

Monitoring reports attached as Annexure-1

(c) Stack Monitoring Data

Pollutants	Location	Concentration of Pollutants discharged (mg/Nm^3)	Percentage of variation from prescribed standards with reasons
PM	SEAF (NO-1) 7.5 MVA	39.97	Within the range
	SEAF (NO-2) 5.5 MVA	42.19	

Monitoring reports attached as Annexure-2

PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
From Process	NIL	NIL
From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
From Process	11378	22603
From Pollution Control Facilities	1074	2168
Quantity recycled or reutilized within the unit	1073	19339



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
Ferro manganese Slag	16690	Being used for the production of Silico manganese
Silico-Manganese Slag	1717	Being used as aggregate material for land filling & road making
BF flue Dust from Ferro	2060	Reused in process
Induction Furnace Slag	3607	Being used as aggregate material for land filling & road making after meta recovery
MS Scrap (SMS)	589	Reused in SMS
BF flue dust from SMS	108	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.	45.00

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, WPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

**TEST REPORT**

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021		
		Period of Analysis	: 06.03.2021 - 08.03.2021		
		Date of Issue	: 10.03.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/08/March/A/III	Report No.	: ENV/08/March/TR(A)/III/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Buildings
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	49.83
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	83.56
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.82
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	25.40
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.20
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141

Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 { 033-25792889

Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org

Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi

Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017)
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd.	Type of Industry	: Ferro Alloy and SMS Unit		
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist - Paschim Bardhaman	Sampling Date	: 05.03.2021 - 06.03.2021		
		Period of Analysis	: 06.03.2021 - 08.03.2021		
		Date of Issue	: 10.03.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/08/March/A/IV	Report No.	: ENV/08/March/TR(A)/IV/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate (Common Entrance for Hira Concast Ltd. and Impex Steel Ltd.)
2. Duration of Sampling : 24 hrs. (10:20 a.m. - 10:20 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	48.07
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	88.06
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.04
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	24.86

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021		
		Period of Analysis	: 06.03.2021 - 08.03.2021		
		Date of Issue	: 10.03.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/08/March/A/V	Report No.	: ENV/08/March/TR(A)/V/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Near DVC Meter Room (Back Side of Plant)
2. Duration of Sampling : 24 hrs. (10:40 a.m. - 10:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	41.70
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	78.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	22.86

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org
Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017)
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021		
		Period of Analysis	: 06.03.2021 - 08.03.2021		
		Date of Issue	: 10.03.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/08/March/A/VI	Report No.	: ENV/08/March/TR(A)/VI/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Dendua Village (1.0 km. distance from Plant)
2. Duration of Sampling : 24 hrs. (11:20 a.m. - 11:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	44.78
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	76.21
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.61
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	20.17

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
 Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
 Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org
 Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
 Overseas : ▪ UAE ▪ Qatar ▪ Netherlands

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021		
		Period of Analysis	: 06.03.2021 - 08.03.2021		
		Date of Issue	: 10.03.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Source Emission
Sample ID No.	: ENV/08/March/A/I	Report No.	: ENV/08/March/TR(A)/1/20-21		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.1) (7.5 MVA)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 36.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.60
Capacity	: 7.5 MVA	Height of sampling port (mtr.) (from G.L.)	: 30.0
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)	: 94.0
2.	Barometric Pressure	mm of Hg.	--	: 754.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.46
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 55165.12
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 167.13
6.	Concentration of CO ₂	% (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 ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 39.97

Remarks :

Reviewed By :

Approved By :

(Durbadal Chakraborty, Dy. Quality Manager)

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
Email : info@envirocheck.org / envirocheck50@gmail.com / Website : www.envirocheck.org
Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021
		Period of Analysis	: 06.03.2021 - 08.03.2021
		Date of Issue	: 10.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/08/March/A/II	Report No.	: ENV/08/March/TR(A)/II/20-21

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.	--	: 754.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.83
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 83158.28
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 180.96
6.	Concentration of CO ₂	% (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 ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 42.19

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
Email : info@envirocheck.org /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/2020-21

Date: 26.10.2021

The Sr. Environmental Engineer

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

Sub: Environment Statement (FY: 2020-21) 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 31st March, 2021 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 IGF & Incharge, GOI, MoEF&CC, Integrated Regional Office, Kolkata, IB-198, Salt Lake City, Sector-III,
Kolkata- 700106

FORM – V
ENVIRONMENTAL STATEMENT
(See rule 14)

Environmental Statement for the financial year 2020-2021 ending with 31st 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. – Nakraoria,
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 23rd Oct 2020

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: -
Cooling: 280 m³/d
Domestic: 10 m³/d

Name of Products	Process water consumption (m ³) per unit of products	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Silico-Manganese	1.73 m ³ /T	1.99 m ³ /T
Ferro Manganese	-	
Billet	1.01 m ³ /T	0.96 m ³ /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 (2019-20)	During the current financial year (2020-21)
FERRO Division			
Manganese Ore	Ferro	-	2490.00
Coal+Coke	Manganese,	-	659.00
Dolomite		-	86.00
Manganese Ore	Silico-	2235.72	1678.76
High Manganese Slag	Manganese,	0.0	560.87
Coal+Coke		627.05	730.00
Dolomite		121.34	82.00
Quartz/Gravel		46.86	282.28
SMS Division			
Sponge Iron	MS Billet	878.69	843.22
Scrap		129.28	167.83
Pig Iron		141.02	103.00
Ferro Shots		-	78.00
Silico Manganese		-	11.61
Ferro Manganese		-	1.16
Ferro Silicon		-	0.12

* **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	Nakrajoria Village	Near MCC Room Building (Back side of the Plant)	
PM _{2.5}	Sampling time 24 hours	48.33	44.18	49.60	Within the range
PM ₁₀		73.01	74.96	76.0	
SO ₂		5.76	5.54	5.97	
NO _x		24.86	18.62	20.78	

Monitoring reports attached as Annexure-1

(c) Stack Monitoring Data

Pollutants	Location	Concentration of Pollutants discharged (mg/Nm^3)	Percentage of variation from prescribed standards with reasons
PM	SAF (NO-1) 7.5 MVA	30.08	Within the range
	SAF (NO-2) 7.5 MVA	42.38	
	Ind. Furnace	32.20	

Monitoring reports attached as Annexure-2

PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
From Process	NIL	NIL
From Pollution Control Facilities	NIL	NIL

PART – E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
From Process	24381	24946.65
From Pollution Control Facilities	1932	2288.89
Quantity recycled or reutilized within the unit	1826	6257.45



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	17513	Being used as aggregate material for land filling & road making
Ferro Manganese Slag	3659	Being used for the production of Silico manganese
Induction Furnace Slag	3397	Being used as aggregate material for land filling & road making after meta recovery
BF flue Dust from Ferro	2221	Reused in process
BF flue dust from SMS	68	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.	22.00

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 as Annexure-1 & 2





ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/07/March/A/IV	Report No.	: ENV/07/March/TR(A)/IV/20-21

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	48.33
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	73.01
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.76
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	24.86
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.16
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01
13.	Mercury	mg/m ³	EPA IO.5 : 1999	0.02

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/07/March/A/V	Report No.	: ENV/07/March/TR(A)/V/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Nakrajoria Village (1 km. Distance from Plant)
2. Duration of Sampling : 24 hrs. (08:00 a.m. - 08:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	44.18
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	74.96
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.54
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	18.62

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 [033-25792889
Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org
Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021 - 06.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/07/March/A/VI	Report No.	: ENV/07/March/TR(A)/VI/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near M.C.C. Building (Back Side of the Plant)
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 754.0
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 _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	49.60
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	76.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.97
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	20.78

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189, 190 & 192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.org / envirocheck50@gmail.com / Website : www.envirocheck.org
Branch Office : Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : UAE • Qatar • Netherlands

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Source Emission
Sample ID No.	: ENV/07/March/A/I	Report No.	: ENV/07/March/TR(A)/I/20-21

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]
Height of Stack (mtr.) (from G. L.)	: 36.0
Stack I.D. at sampling point (mtr.)	: 1.60
Height of sampling port (mtr.) (from G.L.)	: 27.0
Permanent Platform & Ladder	: Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 74.0
2.	Barometric Pressure	mm of Hg.	--	: 754.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.87
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 73193.81
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 18.80
6.	Concentration of CO ₂	% (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 ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 30.08

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.org /envirocheck50@gmail.com / Website : www.envirocheck.org
Branch Office : ▪ Siliguri ▪ Haldia ▪ Durgapur ▪ Dhanbad ▪ Gangtok ▪ Port Blair ▪ Dehradun ▪ New Delhi
Overseas : ▪ UAE ▪ Qatar ▪ Netherlands



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/07/March/A/II	Report No.	: ENV/07/March/TR(A)/II/20-21

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)	: 70.0
2.	Barometric Pressure	mm of Hg.	--	: 754.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.94
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 80729.74
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 27.85
6.	Concentration of CO ₂	% (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 ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 42.38

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd. (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	: 05.03.2021
		Analysis completed on	: 06.03.2021 - 08.03.2021
		Date of Issue	: 09.03.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/07/March/A/III	Report No.	: ENV/07/March/TR(A)/III/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hood Over Induction Furnace (2 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 & Scrap
Fuel Used	: Electrically Operated
Working Fuel Consumption	: Nil
Pollution Control Device	: Bag Filter (2 nos.)

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 53.0
2.	Barometric Pressure	mm of Hg.	--	: 754.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.31
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 31947.18
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec 11(Vol. 3 11.07) : 2011	: 32.20

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)