

Ref.: ESPL/ES/2022-23

Date: 7th, November 2023

The Environmental Engineer

West Bengal Pollution Control Board
Asansol Regional Office,
Kalyanpur Satellite Township Project,
Dr. B.C. Roy Road, PO- Dakshin Dhadka, Asansol-713302,
Dist.-Paschim Bardhaman (WB)

Sub: Environment Statement (FY:2022-23) of M/S Eloquent Steel Pvt. Limited (Formerly Hira Concast Ltd. & Impex Steel Ltd.), Vill-Nakrajoria, PO&PS-Salanpur, Dist-Paschim Bardhaman (WB)-713357

Dear Sir,

With reference to above subject we are submitting the Environment Statement (Form-V) for financial year ending 31st March, 2023 of M/S Eloquent Steel Pvt. Limited (Formerly Hira Concast Ltd. & Impex Steel Ltd.), Vill-Nakrajoria, PO&PS-Salanpur, Dist-Paschim Bardhaman (WB), for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **ELOQUENT STEEL PVT. LIMITED**
(Formerly Hira Concast Ltd. & Impex Steel Ltd.)

(Authorized Signatory)



Encl: As above

Copy to:

The IGF, 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 2022-2023 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. – Nakraoria, PS – Salanpur,
Dist – Paschim Burdwan (WB)-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: 28th Oct 2020

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: -
Cooling: 550 m³/d
Domestic: 20 m³/d

Name of Products	Water Consumption (M ³) Per Unit of Products	
	During the Previous Financial Year (2021-22)	During the Current Financial Year (2022-23)
Silico-Manganese & Ferro Manganese	1.47 m ³ /T	1.40 m ³ /T
MS Ingot	1.03 m ³ /T	1.02 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 (2021-22)	During the current financial year (2022-23)
FERRO Division			
Manganese Ore	Silico-Manganese, Ferro Manganese, High manganese slag (Fe-Mn Slag)	2482	1804
Ferro Manganese Slag		178	557
Coal+Coke		757	651
Dolomite		56	36
Quartz		56	0
Gravel		13	190
Electrode Paste		0	8
SMS Division			
Sponge Iron	MS Ingot	808	739
Scrap		253	352
Pig Iron		131	129
Ferro Shots		39	13
Silico Manganese		12	17
Ferro Manganese		7	2
Ferro Silicon		1	0

* **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)

Pollutants	Quantity of Pollutants Discharge (Kg/Day)	Concentration of Pollutants Discharged (Mg/Nm ³)	Percentage Of Variation From Prescribed Standards With Reasons
a) Water	0	0	No industrial waste water being discharged outside the factory premises
b) Stack Emission			
PM SAF (NO-1) 7.5 MVA	18.54	14.53	Within the range (Monitoring reports attached)
PM SAF (NO-2) 7.5 MVA	34.35	24.71	
PM SAF (NO-3) 7.5 MVA	39.54	28.46	
PM SAF (NO-4) 5.5 MVA	40.26	18.6	



PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the Current Financial Year (2022-23)	
From Process	0.880	Copy Annual return Form-4 attached
From Pollution Control Facilities	0.150	

PART – E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
a) From Process	54076	53508
b) From Pollution Control Facilities	4258	3706
c) (i) Quantity recycled or reutilized within the unit	15202	17349
(ii) Disposed	16864	39865
(iii) Sold	19688	-

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	30964	Being used as aggregate material for land filling & road making
High Manganese Slag	13233	Being used for the production of Silico manganese
Induction Furnace Slag	8769	Being used as aggregate material for land filling & road making after metal recovery
BF flue Dust from Ferro	3572	Reused in process
BF flue dust from SMS	133	Used for land filling
MS Scrap	543	Reused in SMS

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, Green Belt Development (Plantation & Plant Maintenance) etc.	52.00



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.
- 2) Copy of Annual Return Form-4





ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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.	Type of Industry	: Ferro Alloy and SMS Unit		
Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	: 21.02.2023		
		Period of Analysis	: 25.02.2023 - 25.02.2023		
		Date of Issue	: 27.02.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/62/Feb./A/I	Report No.	: ENV/62/Feb./TR(A)/I/22-23

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.)	: 1.50
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)	: 84.0
2.	Barometric Pressure	mm of Hg.	-	: 758.0
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)	: 53151.86
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 41.81
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 1.8
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 14.53

Remarks : Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory:

Dr. AJAY PAUL
Quality Manager



ENVIROCHECK

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TEST REPORT

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Address	: Vill. - Nakrajoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	: 21.02.2023		
		Period of Analysis	: 25.02.2023 - 25.02.2023		
		Date of Issue	: 27.02.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/62/Feb./A/II	Report No.	: ENV/62/Feb./TR(A)/II/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.2) (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.)	: 1.6
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)	: 88.0
2.	Barometric Pressure	mm of Hg.	-	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.73
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 57920.47
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 32.0
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 1.6
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 24.71

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL
Quality Manager



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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TC-6014

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Eloquent Steel Pvt. Ltd.	Type of Industry	: Ferro Alloy and SMS Unit		
Address	: Vill. - Nakraoria, P.O. + P.S. - Salanpur, Dist. - Paschim Bardhaman	Sampling Date	: 21.02.2023		
		Period of Analysis	: 25.02.2023 - 25.02.2023		
		Date of Issue	: 27.02.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/62/Feb./A/III	Report No.	: ENV/62/Feb./TR(A)/III/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.3) (7.5 MVA)	Height of Stack (mtr.) (from G. L.)	: 36.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 1.6
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)	: 87.0
2.	Barometric Pressure	mm of Hg.	-	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.70
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 57891.53
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 42.24
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 2.0
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 28.46

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL
Quality Manager

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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



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TEST REPORT

FORMAT NO : ENV/FM/38

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	: 21.02.2023		
		Period of Analysis	: 25.02.2023 - 25.02.2023		
		Date of Issue	: 27.02.2023		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/62/Feb./A/IV	Report No.	: ENV/62/Feb./TR(A)/IV/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.4) (5.5 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.)	: 2.0
Capacity	: 5.5 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)	: 84.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.59
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 90197.91
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 36.58
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 1.8
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 18.60

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRAMI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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 Overseas : UAE ■ Qatar ■ Netherlands

FORM 4
[See rules 6(5), 13(8), 16(6) and 20 (2)]
Annual Return
under
Hazardous & Other Wastes(Management & Transboundary Movement) Rules, 2016
Transboundary Movement) Rules, 2016

To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March

Return No : 4173934

Period : 2022-2023

1. Name of facility/Industry Industry Address of facility/Industry	<i>Eloquent Steel Pvt.Ltd Vill-Nakrajoria, PO & PS-Salanpur, Dist-Paschim Bardhaman (WB)</i>			
2. UID	<i>WB0299870865</i>			
3. Authorisation No Date of issue: Date of Expiry	<i>192/2S(HW)-4528/2022 29/09/2022 31/07/2027</i>			
4. (i) Name of the authorised person & Designation	<i>R. K. Mishra DGM</i>			
(ii) Correspondence Address	<i>Vill- Nakrajoria, P.O & P.S salanpur, Dist – Paschim Bardhaman ,pin 713357.</i>			
(iii) Mobile No	<i>8695621900</i>			
(iv) Land Line No (with area code)				
(iv) Fax number (with area code)				
(vi) e-mail	<i>rk.mishra@shakambharigroup.in</i>			
(vii) Type of HW Handler	<i>Generator</i>			
(viii) If involved in Interstate Movement of HW	<i>Yes</i>			
5. Production during the year (product wise), wherever applicable	Sr.no	Product Name	Quantity	Unit
	<i>1</i>	<i>SILICO MANGANES E</i>	<i>38566</i>	<i>Metric Ton</i>
	<i>2</i>	<i>FERRO MANGANES E</i>	<i>16404</i>	<i>Metric Ton</i>
	<i>3</i>	<i>M.S. Ingot</i>	<i>47250</i>	<i>Metric Ton</i>

Part A. To be filled by hazardous waste generators

Sr. no	Name of Process	Category	Waste Stream	Unit	Quantity in stock at the beginning of the year	Total quantity of waste generated	Quantity dispatched to disposal facility	Quantity dispatched to recyclers or co-processors or pre-processor	Quantity dispatched to others	Quantity utilised in house	Quantity in storage at the end of the year

1	Schedule I - 13. Production of iron and steel including other ferrous alloys (electric furnaces; steel rolling and finishing mills; Coke oven and by product plant)	Used Oil	5.1	Metric Ton	0.05 Metric Tonnes/Y ear	0.83 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.88 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear
2	Schedule I - 13. Production of iron and steel including other ferrous alloys (electric furnaces; steel rolling and finishing mills; Coke oven and by product plant)	Used Cotton	5.2	Metric Ton	0 Metric Tonnes/Y ear	0.15 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.15 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear

Part B. To be filled by Treatment, storage and disposal facility operators

Sr. no	Name of Process	Category	Waste Stream	Unit	Quantity in stock at the beginning of the year	Total quantity received	Quantity treated	Quantity disposed in landfills as such and after treatment	Quantity incinerated (If applicable)	Quantity processed other than specified above	Quantity in storage at the end of the year
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Part C. To be filled by recyclers or co-processors or other users

Sr. no	Name of Process	Category	Waste Stream	Unit	Quantity in stock at the beginning of the year	Quantity of waste received during the year from Domestic sources	Quantity of waste received during the year Imported	Quantity recycled or co-processed or used	Quantity re-exported (wherever applicable)	Quantity in storage at the end of the year	
Whether Importing Other Wastes						Not-Selected					

Part D. Details of Interstate Movement

Sr.no	Name of Industry (Within State)	District	Receiving/Sending	Name of Industry (Other State)	State	Type of Waste	Qty.(MTA)	Purpose (Recycling/Disposal/Incineration)
1	Eloquent Steel Pvt.Ltd	Paschim Bardhaman	Sending	NILAY NARAYAN POLYCHEM LLP	JHARKHAND	Used oil	0.88 MTA	

Part D. Details of Import of Other Waste Import & Recycling

Sr.no	Name of the Importer)	Imported from (country name)	Type of Other waste	Quantity Imported (MTA)	Quantity Recycled (MTA)
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Date :31/08/2023

Place : *Paschim Bardhaman*

DEEPAK KUMAR AGARWAL

**Name of the Occupier or Operator of the
disposal facility**