

Ref.: SPS-1/ES/2022-23

Date: 23rd October, 2023

The Environmental Engineer,
Shahid Khudiram Sarani,
City Center, Durgapur (WB)-713216

**Sub: Environment Statement (FY: 2022-2023) of M/s SPS Steels Rolling Mills Limited,
Dr. Zakir Hussain Avenue, G. T. Road (Indo American More), Durgapur, PO-ABL
Sub-Post Office Dist- Paschim Bardhaman-713206 (WB)**

Dear Sir,

Please find enclosed herewith the Environment Statement (Form-V) for financial year ending the 31st March, 2023 of M/s SPS Steels Rolling Mills Limited, Dr. Zakir Hussain Avenue, G. T. Road (Indo American More) Durgapur, PO-ABL Sub-Post Office, Dist- Paschim Bardhaman -713206 (WB) for your kind consideration.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **SPS Steels Rolling Mills Limited**

(Authorized Signatory)
23/10/2023

Encl: As above.

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 SPS Steels Rolling Mills Limited,
Dr. Zakir Hussain Avenue,
G. T. Road (Indo American More), Durgapur,
Dist.- Paschim Burdwan-713206 (WB)

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

iii. Production category - **Iron & Steel**

iv. Year of establishment- (Our Group has acquired this establishment in April 2019)

v. Date of the last environmental statement submitted - 28.10.2022

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process:

Cooling: 760 m³/d

Domestic: 25 m³/d

Name of Products	Process water consumption (m ³) per unit of products	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Sponge Iron	0.28 m ³ /T	0.31 m ³ /T
Billet	0.70 m ³ /T	0.71 m ³ /T
TMT Bar + Wire Rod	0.35 m ³ /T	0.35 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)
DRI Division			
Iron Ore	Sponge Iron	291	488
Iron Ore Pellet		1198	1035
Coal		1044	994
Dolomite		33	38
SMS Division			
Sponge Iron	MS Billet	794	819
Pig Iron		162	126
MS Scrap		211	206
Ferro Shots		-	18
Silico Manganese		-	30
Rolling Mill Division			
MS Billet	TMT Bar	1048	1044

*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

Pollutants	Quantity of pollutants discharged (kg/day)	Concentration of Pollutants discharged (mg/Nm ³)	Percentage of variation from prescribed standards with reason
a)	0	0	No industrial waste water discharges outside the factory premise.
b) Stack emission			
DRI (2x40TPD)	15.2	36.79	Below prescribed standards (monitoring reports attached)
DRI (1x100 TPD)	21.4	44.26	
Cooler Discharge	5.4	28.76	
Product House	8.4	34.84	

PART-D

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

Hazardous Wastes	Total Quantity (MT)		Remarks
	During the previous financial year (2021-22)	During the current financial year (2022-23)	
Used Oil form operation and maintenance	0.600	1.4	Form-IV attached
Cotton waste from cleaning and mopping	0.225	0.32	



PART-E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
From Process	32036	42567
From Pollution Control Facilities	9908	11248
Quantity recycled or reutilized within the unit	5016	8898
Disposed	16557	24068
Sold/Give to end User	20371	20849

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
Dolochar	16825	Being Sold to CPP units for power
ESP Dust from DRI	6530	Used for land filling
BF flue Dust from DRI	4024	Used for land filling after metal recovery
MS Scrap from SMS	1725	Reused in SMS
IF Slag	16844	Used for Road Construction and Land filling
BF flue dust from SMS	693	Used for land filling
End cuts, Missroll from RMD	5301	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), CER, etc.	225



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 all the directions given by the WBPCB, and getting regular Water & Air consents.
- (2) Periodic Environmental Monitoring being done by NABL accredited laboratory to evaluate the environmental status of the plant and surroundings.

Enclosure List:

- 1- Copies of Env. Monitoring Report
- 2- Hazardous Waste Return (Form-4)





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Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216

Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TC-11003

TEST REPORT OF STACK GAS ANALYSIS

Page : 1/1

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision			
Report No.	: GV/AR/22-23/0344	Laboratory Ref. No.	: AS-216-2022(5)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.(Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022
Sample Description	: Stack Air	Sample Received On	: 12.12.2022
Location	: 2 Nos. 40 TPD Rotary Kiln	Analysis Started On	: 13.12.2022
Sample Condition	: In GMF Thimble & Plastic Bottle	Analysis Completed On	: 13.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 11:50 am
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (DRI Plant)		
02. Stack connected to	: 2 Nos. 40 TPD Rotary Kiln		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L. (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L. (mtr)	: 24.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.0		
08. Emission due to	: Reduction of Iron Ore & Oxidation of Coal		
09. Steam generation capacity:	(rated)	(running)	: ---
10. Load of source:	(rated)	(running)	: I.O. : 2.4 MT/Hr./Kiln

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used				: Coal	
02. Calorific value (K-Cal/Kg): —		03. Ash content (% by Wt): —		04. Sulphur content (% by Wt): —	
05. Rated fuel consumption		: —			
06. Working fuel consumption		: 2.0 MT/Hr./Kiln			

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 110
02. Barometric pressure (mm of Hg)	: 756.0
03. Velocity of flue gas (m/sec)	: 8.64
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 17216.58
05. Concentration of Particulate Matter (mg/Nm^3)	: 28.82
06. Particulate Matter normalized at 12% CO_2	: 36.79
07. Concentration of SO_2 (mg/Nm^3)	: 146.92
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 9.4
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Authorised Signatory

For, GREEN VISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
 2. All the information under column A & B are supplied by the respective industry.
 3. This certificate may not be reproduced in part or full without written permission of the management.
 4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.

City Office : 5/11, New Shibtala Lane, Bansdroni, Kolkata-700 070, Ph. : 9433158173

Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 8101647425 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

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Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0343	Laboratory Ref. No.	: AS-216-2022(4)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.(Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022
Sample Description	: Stack Air	Sample Received On	: 12.12.2022
Location	: 100 TPD Rotary Kiln	Analysis Started On	: 13.12.2022
Sample Condition	: In GMF Thimble & Plastic Bottle	Analysis Completed On	: 13.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 10:10 am
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (DRI Plant)		
02. Stack connected to	: 100 TPD Rotary Kiln		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L. (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L. (mtr)	: 22.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.0		
08. Emission due to	: Reduction of Iron Ore & Oxidation of Coal		
09. Steam generation capacity:	(rated)	---	(running) : ---
10. Load of source:	(rated)	: 100 TPD	(running) : I.O. : 5.5 MT/Hr.

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Coal		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: 4.8 MT/Hr.		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 117
02. Barometric pressure (mm of Hg)	: 756.0
03. Velocity of flue gas (m/sec)	: 9.92
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 20145.26
05. Concentration of Particulate Matter (mg/Nm^3)	: 33.93
06. Particulate Matter normalized at 12% CO_2	: 44.26
07. Concentration of SO_2 (mg/Nm^3)	: 182.56
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 9.2
10. Concentration of CO (% V/V)	: < 1.0
Pollution Control Device	: ESP
Permanent Ladder and Platform	: Yes

Checked by

(Signature)
(Chemist)

(Signature)
(Sabyasachi Shyam Rpy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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TC-11003

TEST REPORT OF STACK GAS ANALYSIS

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[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0346	Laboratory Ref. No.	: AS-216-2023(7)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.(Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022
Sample Description	: Stack Air	Sample Received On	: 12.12.2022
Location	: Cooler Discharge	Analysis Started On	: 13.12.2022
Sample Condition	: In GMF Thimble	Analysis Completed On	: 13.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 03:40 pm
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part I), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (DRI Plant)		
02. Stack connected to	: Cooler Discharge		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 10.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 0.6		
08. Emission due to	: Process activities		
09. Steam generation capacity:	(rated)		(running) : ---
10. Load of source:	(rated)		(running) : ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

C. RESULTS OF GASEUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 46
02. Barometric pressure (mm of Hg)	: 756.0
03. Velocity of flue gas (m/sec)	: 8.19
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 7754.87
05. Concentration of Particulate Matter (mg/Nm^3)	: 28.76
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/Nm^3)	: ---
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: ---
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: Bag Filter
Permanent Ladder and Platform	: Yes

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)

Quality Manager

Authorised Signatory

For, GREEN VISION

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TEST REPORT OF STACK GAS ANALYSIS

Page : 1/1

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/22-23/0345	Laboratory Ref. No.	: AS-216-2023(6)
Issued to	: M/s. SPS Steels Rolling Mills Ltd.(Unit-I)	Report Date	: 23.12.2022
Address	: Dr. Zakir Hussain Avenue, Durgapur, Pin : 713206, Paschim Bardhaman.	Date of Sampling	: 12.12.2022
Sample Description	: Stack Air	Sample Received On	: 12.12.2022
Location	: Product House	Analysis Started On	: 13.12.2022
Sample Condition	: In GMF Thimble	Analysis Completed On	: 13.12.2022
Sampling Method	: CPCB, Emission Regulation (Part III)	Time of Sampling	: 01:45 pm
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Integrated Steel Plant (DRI Plant)		
02. Stack connected to	: Product House		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 30.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 20.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 0.8		
08. Emission due to	: Process activities		
09. Steam generation capacity: (rated)	: ---	(running)	: ---
10. Load of source: (rated)	: ---	(running)	: ---

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: ---		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

C. RESULTS OF GASEOUS EMISSION SAMPLING

01. Flue gas temperature (°C)	: 39
02. Barometric pressure (mm of Hg)	: 756.0
03. Velocity of flue gas (m/sec)	: 6.12
04. Quantity of gas flow (Nm³/hr.)	: 10104.32
05. Concentration of Particulate Matter (mg/ Nm³)	: 34.84
06. Particulate Matter normalized at 12% CO₂	: ---
07. Concentration of SO₂ (mg/ Nm³)	: ---
08. Concentration of NO₂ (mg/ Nm³)	: ---
09. Concentration of CO₂ (% V/V)	: ---
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: Bag Filter
Permanent Ladder and Platform	: Yes

Checked by

(Chemist)

(Sabyasachi Shyam Roy Chowdhury)
Quality Manager
Authorised Signatory
For, GREEN VISION

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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 : 4134343

Period : 2022-2023

1. Name of facility/Industry Industry Address of facility/Industry	SPS STEELS ROLLING MILLS LTD. Dr. ZAKIR HUSSAIN AVENUE, G T ROAD, (INDO AMERICAN MORE), DURGAPUR, PO-ABL SUB POST OFFICE DURGAPUR, DIST-PASCHIM BARDHAMAN (WB)			
2. UID	WB0149054222			
3. Authorisation No Date of issue: Date of Expiry	APPLIED FOR (APPLICATION NO. 2477439) 08/08/2023 08/08/2023			
4. (i) Name of the authorised person & Designation	Deepak Kumar Agarwal Director			
(ii) Correspondence Address	SPS STEELS ROLLING MILLS LTD. Dr. ZAKIR HUSSAIN AVENUE, G T ROAD, (INDO AMERICAN MORE), DURGAPUR, PO-ABL SUB POST OFFICE DURGAPUR, DIST-PASCHIM BARDHAMAN (WB)			
(iii) Mobile No	9233331111			
(iv) Land Line No (with area code)	0343-66255252			
(iv) Fax number (with area code)				
(vi) e-mail	cmd@shakambhargroup.in			
(vii) Type of HW Handler	Generator			
(viii) If involved in Interstate Movement of HW	Yes			
5. Production during the year (product wise), wherever applicable	Sr.no	Product Name	Quantity	Unit
	1	TMT BAR	165017	Metric Ton
	2	MS BILLET	115796	Metric Ton
	3	SPONGE IRON	59434	Metric Ton

Part A. To be filled by hazardous waste generators

S r. n o	Name of Process	Cate gory	Waste Stream	Unit	Quantit y in stock at the beginnin g of the year	Total quantity of waste generate d	Quantit y dispatch ed to disposal facility	Quantit y dispatch ed to recycler or co-processo rs or pre-processo r	Quantit y dispatch ed to others	Quantit y utilised in house	Quantit y in storage at the end of the year

1	Schedule I - 5. Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems or other applications	Used or spent oil	5.1	Metric Ton	0 Metric Tonnes/Y ear	1.4 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	1.4 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	0.32 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.32 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear

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

S. r. 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

S. r. 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	SPS STEELS ROLLING MILLS LTD.	Paschim Bardhaman	Sending	Nilay Narayan Ploychem LLP	Jharkhand	Used Oil	1.4 MTA	Recycling

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 : 13/08/2023

Place : Paschim Bardhaman

DEEPAK KUMAR AGARWAL

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