

Ref.: SPS-II/ES/2023-24

Date: 30th September, 2024

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: Environmental Statement (FY: 2023-24) of M/s SPS Steels Rolling Mills Limited, Unit-II , Vill-Poradiha, PO-Pachhandapur, Dist-Purulia (WB)-722153

Dear Sir,

With reference to the subject, we are submitting the Environmental Statement (Form-V) for financial year ending with 31st March, 2024 of M/s SPS Steels Rolling Mills Limited, Unit-II, Vill-Poradiha, PO-Pachhandapur, Dist-Purulia (WB) for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **M/s SPS Steels Rolling Mills Ltd., Unit-II**

(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

ENVIRONMENTAL STATEMENT

(See rule 14)

Environmental Statement for the financial year 2023-2024 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-ll Steels Rolling Mills Limited,
Village- Poradiha, PO-Pachhandapur,
Dist- Purulia (WB)-722153

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

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

iv. Year of establishment- (Our group has acquired this establishment and taken possession in Nov-2021)

v. Date of the last environmental statement submitted- 07th Nov. 2023

PART-B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: 145 m³/d

Cooling: 840 m³/d

Domestic: 20 m³/d

| Name of Products | Water consumption (m ³) per unit of products | |
|------------------|--|---|
| | During the previous financial year (2022-23) | During the current financial year (2023-24) |
| Sponge Iron | 0.60 m ³ /T | 0.58 m ³ /T |
| Ferro Alloys | 1.14 m ³ /T | 1.62 m ³ /T |
| Electricity | - | 2.85m ³ /MW |



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 (2022-23) | During the current financial year (2023-24) |
| DRI Division | | | |
| Iron Ore | Sponge Iron | - | - |
| Iron Ore Pellet | | 1430 | 1414 |
| Coal | | 1083 | 992 |
| Dolomite | | 48 | 40 |
| Ferro Division | | | |
| Manganese Ore | Silico Manganese/ Ferro manganese/ ferro silicon | 1780 | 1835.39 |
| Coal and Coke | | 587 | 589.52 |
| Dolomite | | 23 | 33.00 |
| Quartz | | 350 | 134.55 |
| Fe-Mn Slag | | 637 | 444.80 |
| Electrode Paste | | - | 27.84 |
| CPP DIVISION | | | |
| Coal/Coal Kg/MW | Captive Power | - | 28.57 |
| Dolochar Kg/MW | | - | 688.75 |
| Note Book: Consumption of raw material per MW power generation reduced due to use of waste heat from WHRB. | | | |

***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 discharge (kg/day) | Concentration of Pollutants discharged (mg/Nm ³) | Percentage of variation from prescribed standards with reason. |
|----------------------------------|---|--|--|
| a) Water | 0 | 0 | No industrial waste water being discharged outside the factory premises. |
| b) Stack Emission | | | |
| PM-DRI 100 TPD Kiln 1 & 2 | 65.3 | 39.1 | Monitoring reports form NABL accredited laboratory attached. |
| PM-DRI 100 TPD Kiln 3 & 4 | 57.6 | 35.82 | |
| PM-DRI -1,2,3&4 Cooler discharge | 6.1 | 40.06 | |
| PM-DRI -1,2,3&4 Product house | 7.8 | 46.56 | |
| PM-AFBC Boiler (16TPH) | 44.0 | 21.59 | |
| Sox-AFBC Boiler | 193.9 | 95.05 | |
| Nox-AFBC Boiler | 154.9 | 75.95 | |
| PM- SAF-1x9MVA | 57.5 | 39.47 | |



PART-D

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

| Hazardous Wastes | Total Quantity (MT) | |
|--------------------------------------|--|---|
| | During the previous financial year (2022-23) | During the current financial year (2023-24) |
| Used oil from operation/ Maintenance | Nil | 0.712 |
| Cotton waste from cleaning | Nil | 0.130 |

Note: Used oil and waste cotton from cleaning and maintenance activities being/shall be collected stored and disposed-off in environment friendly manner to authorized vendor.

PART-E

| Solid Wastes | Total Quantity (MT) | |
|--|--|---|
| | During the previous financial year (2022-23) | During the current financial year (2023-24) |
| From Process | 27,848 | 35963 |
| From Pollution Control Facilities | 16580 | 34507 |
| Quantity recycled or reutilized within the unit | 94 | 23353 |
| Sold/provided to other sister units within the group | 32447 | 26304 |
| Disposed | 11,887 | 20813 |

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 | 26834 | Being used in CPP unit for power generation/sold or provided sister units for utilization in CPP |
| ESP Dust from DRI | 13177 | Used for abandoned mines land filling |
| BF flue Dust from DRI | 3538 | Iron dust being provided to pellet making unit and coal dust as fuel in CCP. |
| BF dust from ferro division | 466 | Used process at SAF |
| Ferro Manganese Slag | 1493 | Used for production of silico-manganese. |
| Silico Manganese Slag | 424 | Disposed for land filling and road making |
| Fly ash from CPP ESP | 17326 | Provided to Cement/Brick manufacturing units |
| Bottom ash from AFBC Boiler | 7212 | 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, Green Belt Development (Plantation & Plant Maintenance) etc. | 62 |

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.

Encl:

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





Eco Care



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Dist. Paschim Bardhaman (W.B.)

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC510924000000188F

TEST REPORT

| | | | |
|---------------------|--|---------------------------|-----------------------|
| Report Release Date | : 17.02.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02010 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : AFBC Boiler Via ESP |
| Name & Address | : SPS Steels Rolling Mills Ltd. Village – Poradiha P.O – Pachhandapur Dist – Purulia West Bengal Pin No – 722153 | Sample Condition | : Sealed & Preserved |
| | | Sample Stamped as | : TH – 80 |
| | | Sample Drawn By | : ECO CARE |
| | | Sampling Plan & Procedure | : EC/SOP/03/01 |
| | | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|----------------------------------|
| 1 | Particular of the Plant | : Steel Plant (Power Plant Div.) |
| 2 | Emission Due to | : Combustion of Coal |
| 3 | Stack Connected to | : AFBC Boiler Via ESP |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 35.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 1.8 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : 16 TPH |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|-------------|
| 1 | Source of Energy | : Coal |
| 2 | Energy Consumption | : 8.0 Mt/hr |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

| | | Method | |
|---|--|----------------------------|-------------------|
| 1 | Flue Gas Temperature | 149 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 13.21 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 84994 NM ³ / hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 21.59 mg/NM ³ | |
| 6 | Concentration of Particulate Matter (at 6% O ₂) | 28.93 mg/NM ³ | IS 11255 : Part 1 |
| 7 | Concentration of Oxygen | 8.6 % | IS 13270 |
| 8 | Concentration of SO ₂ | 95.05 mg/NM ³ | IS 11255 : Part 2 |
| 9 | Concentration of NO _x | 75.95 mg/NM ³ | IS 11255 : Part 7 |

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2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

Dr. Mousumi Pal
Ph.D.(Env.), Scientist
Authorised Signatory



Eco Care



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ULR NO – TC51092400000189F

TEST REPORT

| | | | |
|---------------------|--|---------------------------|----------------------|
| Report Release Date | : 17.02.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02011 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : SAF Via APC System |
| Name & Address | : SPS Steels Rolling Mills Ltd. Village - Poradiha P.O – Pachhandapur Dist – Purulia West Bengal Pin No – 722153 | Sample Condition | : Sealed & Preserved |
| | | Sample Stamped as | : TH – 81 |
| | | Sample Drawn By | : ECO CARE |
| | | Sampling Plan & Procedure | : EC/SOP/03/01 |
| | | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|--|
| 1 | Particular of the Plant | : Steel Plant (Ferro Alloys Div.) |
| 2 | Emission Due to | : Melting of Mn Ore |
| 3 | Stack Connected to | : Submerged Arc Furnace Via Bag Filter |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 30.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 1.8 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : 9 MVA |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|---------------|
| 1 | Source of Energy | : Electricity |
| 2 | Energy Consumption | : ---- |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

| | | Method | |
|---|-------------------------------------|----------------------------|-------------------|
| 1 | Flue Gas Temperature | 83 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 8.0 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 60684 NM ³ / hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 39.47 mg/NM ³ | IS 11255 : Part 1 |
| 6 | Concentration of Carbon Dioxide | ---- | IS 13270 |
| 7 | Concentration of SO ₂ | ---- | IS 11255 : Part 2 |

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3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

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ULR NO – TC510924000000190F

TEST REPORT

| | | | |
|---------------------|--|----------------------|-----------------------|
| Report Release Date | : 17.02.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02012 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : Rotary Kiln Via ESP |
| Name & Address | : SPS Steels Rolling Mills Ltd. | Sample Condition | : Sealed & Preserved |
| | Village – Poradiha | Sample Stamped as | : TH – 82 |
| | P.O – Pachhandapur | Sample Drawn By | : ECO CARE |
| | Dist – Purulia | Sampling Plan & | |
| | West Bengal | Procedure | : EC/SOP/03/01 |
| | Pin No – 722153 | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|--|
| 1 | Particular of the Plant | : Steel Plant (Sponge Iron Div.) |
| 2 | Emission Due to | : Reduction of Iron Ore & Oxidation of Coal |
| 3 | Stack Connected to | : Rotary Kiln No 1&2(Both are in operation) |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 35.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 2.0 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : Kiln-1 = 5.7 Mt/hr, & Kiln-2 = 5.5 Mt/hr |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|-----------------------|
| 1 | Source of Energy | : Coal |
| 2 | Energy Consumption | : 4.3 Mt/hr each Kiln |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

| | | Method | |
|---|-------------------------------------|---------------------------|-------------------|
| 1 | Flue Gas Temperature | 123 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 8.22 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 69545 NM ³ /hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 39.10 mg/NM ³ | IS 11255 : Part 1 |
| 6 | Concentration of Carbon Dioxide | 9.2 % | IS 13270 |
| 7 | Concentration of SO ₂ | 149.51 mg/NM ³ | IS 11255 : Part 2 |
| 8 | Concentration of NO _x | 114.71 mg/NM ³ | IS 11255 : Part 7 |

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ULR NO – TC510924000000191F

TEST REPORT

| | | | |
|---------------------|--|----------------------|-----------------------|
| Report Release Date | : 17.02.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02013 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : Rotary Kiln Via ESP |
| Name & Address | : SPS Steels Rolling Mills Ltd. Village – Poradiha P.O – Pachhandapur Dist – Purulia West Bengal Pin No – 722153 | Sample Condition | : Sealed & Preserved |
| | | Sample Stamped as | : TH – 83 |
| | | Sample Drawn By | : ECO CARE |
| | | Sampling Plan & | |
| | | Procedure | : EC/SOP/03/01 |
| | | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|---|
| 1 | Particular of the Plant | : Steel Plant (Sponge Iron Div.) |
| 2 | Emission Due to | : Reduction of Iron Ore & Oxidation of Coal |
| 3 | Stack Connected to | : Rotary Kiln No 3&4 (Both are in operation) |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 35.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 2.0 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : Kiln-3 = 5.5 Mt/hr, & Kiln-4 = 5.9 Mt/hr |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|-----------------------|
| 1 | Source of Energy | : Coal |
| 2 | Energy Consumption | : 4.6 Mt/hr each Kiln |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

Method

| | | | |
|---|-------------------------------------|----------------------------|-------------------|
| 1 | Flue Gas Temperature | 138 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 8.21 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 66996 NM ³ / hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 35.82 mg/NM ³ | IS 11255 : Part 1 |
| 6 | Concentration of Carbon Dioxide | 9.6 % | IS 13270 |
| 7 | Concentration of SO ₂ | 119.54 mg/NM ³ | IS 11255 : Part 2 |
| 8 | Concentration of NO _x | 77.83 mg/NM ³ | IS 11255 : Part 7 |

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory

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ULR NO – TC510924000000264F

TEST REPORT

| | | | |
|---------------------|--|----------------------|----------------------|
| Report Release Date | : 14.03.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02038 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : Cooler Discharge |
| Name & Address | : SPS Steels Rolling Mills Ltd. | Sample Condition | : Sealed & Preserved |
| | Village – Poradiha | Sample Stamped as | : TH – 85 |
| | P.O – Pachhandapur | Sample Drawn By | : ECO CARE |
| | Dist – Purulia | Sampling Plan & | |
| | West Bengal | Procedure | : EC/SOP/03/01 |
| | Pin No – 722153 | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|-----------------------------------|
| 1 | Particular of the Plant | : Steel Plant (Sponge Iron Div.) |
| 2 | Emission Due to | : Process Activity |
| 3 | Stack Connected to | : Cooler Discharge Via Bag Filter |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 30.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 0.6 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : ---- |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|--------|
| 1 | Source of Energy | : ---- |
| 2 | Energy Consumption | : ---- |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

| | | Method | |
|---|-------------------------------------|---------------------------|-------------------|
| 1 | Flue Gas Temperature | 51 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 6.67 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 6393 NM ³ / hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 40.06 mg/NM ³ | IS 11255 : Part 1 |

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3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

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ULR NO – TC51092400000265F

TEST REPORT

| | | | |
|---------------------|--|---------------------------|----------------------|
| Report Release Date | : 14.03.2024 | Sample Ref. No.(ARF) | : EC/ARF/29/240208 |
| Test Report No | : EC/TR/42/02039 | Source of Sample | : Steel Plant |
| Type of Sample | : Dust & Gaseous Emission | Sampling Date | : 07.02.2024 |
| Sample Collected by | : Mr. Sumit Sarkar & Team | Period of Analysis | : 09.02.2024 |
| Sample Details | : Stack Emission | Sampling Location | : Product House |
| Name & Address | : SPS Steels Rolling Mills Ltd. Village – Poradiha P.O – Pachhandapur Dist – Purulia West Bengal Pin No – 722153 | Sample Condition | : Sealed & Preserved |
| | | Sample Stamped as | : TH – 86 |
| | | Sample Drawn By | : ECO CARE |
| | | Sampling Plan & Procedure | : EC/SOP/03/01 |
| | | Remarks | : ---- |
| | | Deviation if any | : None |

GENERAL INFORMATION

| | | |
|----|-------------------------------------|----------------------------------|
| 1 | Particular of the Plant | : Steel Plant (Sponge Iron Div.) |
| 2 | Emission Due to | : Process Activity |
| 3 | Stack Connected to | : Product House Via Bag Filter |
| 4 | Material of Construction | : M.S |
| 5 | Stack Height from G.L. | : 30.0 m |
| 6 | Height of Sampling Port from G.L. | : ---- |
| 7 | Height of Sampling Port from L.D.Z. | : ---- |
| 8 | Dimension of Stack at Sampling Port | : 0.6 m |
| 9 | Shape of the Stack | : Circular Ø |
| 10 | Working Load | : ---- |

FUEL CHARACTERISTIC REPORT

| | | |
|---|----------------------------|--------|
| 1 | Source of Energy | : ---- |
| 2 | Energy Consumption | : ---- |
| 3 | Calorific Value (K-Cal/Kg) | : ---- |

RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

| | | Method | |
|---|-------------------------------------|---------------------------|-------------------|
| 1 | Flue Gas Temperature | 41 °C | IS 11255 : Part 3 |
| 2 | Barometric Pressure | 755 mm Hg | IS 11255 : Part 3 |
| 3 | Velocity of Flue Gas | 7.28 m/sec | IS 11255 : Part 3 |
| 4 | Flue Gas Quantity | 6988 NM ³ / hr | IS 11255 : Part 3 |
| 5 | Concentration of Particulate Matter | 46.56 mg/NM ³ | IS 11255 : Part 1 |

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Dr. Mousumi Pal
Ph.D.(Env.), Scientist
Authorised Signatory



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Specialised House on Environmental Monitoring, Analysis, Assessment & Management

ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

TCLP REPORT

| | |
|---|---|
| Report Release Date : 19.02.2024 | Sample Ref. No.(ARF) : EC/ARF/29/240260 |
| Test Report No : EC/TR/42/02237 | Source of Sample : Steel Plant (SAF Unit) |
| Type of Sample : Slag | Sampling Date : 07.02.2024 |
| Sample Collected by : Mr. Sumit Sarkar | Period of Analysis : 09.02.24 to 13.02.24 |
| Sample Details : SAF Slag | Sampling Location : Silico Manganese Slag |
| Name & Address : SPS Steels Rolling Mills Ltd. | Sample Condition : Sealed & Preserved |
| Village - Poradiha | Sample Stamped as : "SPSRML - 02" |
| P.O - Pachhandapur | Sample Drawn By : ECO CARE |
| Dist - Purulia | Remarks : --- |
| West Bengal - 722153 | Deviation if any : None |

| Sl. No | Parameters | Test Method | Unit | Results |
|--------|---------------|---|------|---------|
| 1 | Iron (Fe) | EPA1311:1992/ EPA3050B,1996/EPA200.9:1998 | mg/l | 2.09 |
| 2 | Zinc (Zn) | EPA1311:1992/ APHA23 rd Ed,3111B:2017 | mg/l | 3.11 |
| 3 | Copper (Cu) | EPA1311:1992/ EPA3050B,1996/EPA200.6:1998 | mg/l | 2.67 |
| 4 | Nickel (Ni) | EPA1311:1992/ APHA23 rd Ed,3111B:2017 | mg/l | 0.66 |
| 5 | Lead (Pb) | EPA1311:1992/ EPA3050B,1996/EPA200.9:1998 | mg/l | 0.24 |
| 6 | Chromium (Cr) | APHA23 rd Ed,3111B:2017 | mg/l | 1.12 |

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory.

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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 : 5280360

Period : 2023-2024

| | | | | |
|---|--|---------------------|-----------------|-------------|
| 1. Name of facility/Industry Industry Address of facility/Industry | SPS STEELS ROLLING MILLS LIMITED, UNIT-II Vill-Poradiha, PO-Pachhandapur, PS -Santuri, Dist- Purulia, Pin-722153 | | | |
| 2. UID | WB0297875333 | | | |
| 3. Authorisation No Date of issue: Date of Expiry | 178/2S(HW)-4612/2023 29/11/2023 31/10/2028 | | | |
| 4. (i) Name of the authorised person & Designation | Deepak Kumar Agrawal Director | | | |
| (ii) Correspondence Address | Vill-Poradiha, PO-Pachhandapur, PS -Santuri, Dist- Purulia, Pin-722153 | | | |
| (iii) Mobile No | 9233331111 | | | |
| (iv) Land Line No (with area code) | 0343-66255252 | | | |
| (iv) Fax number (with area code) | | | | |
| (vi) e-mail | emd.sipl@shakambhargroup.co.in | | | |
| (vii) Type of HW Handler | Generator | | | |
| (viii) If involved in Interstate Movement of HW | No | | | |
| 5. Production during the year (product wise), wherever applicable | Sr.no | Product Name | Quantity | Unit |
| | 1 | FERRO MANGANES E | 6338 | Metric Ton |
| | 2 | SILICO MANGANES E | 4984 | Metric Ton |
| | 3 | SPONGE IRON | 119788 | 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 beginning of the year | Total quantity of waste generate d | Quantit y dispatch ed to disposal facility | Quantit y dispatch ed to recycler or co-processors or pre-processor | Quantit y dispatch ed to others | Quantit y utilised in house | Quantit y 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 Metric Tonnes/Y ear | 0.712 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0.712 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear |
| 2 | Schedule I - 36. Purification process for organic compounds/solvents | Spent carbon or filter medium | 36.2 | Metric Ton | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear |
| 3 | 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 | 0.130 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0 Metric Tonnes/Y ear | 0.130 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 |
|--------|-----------------|----------|--------------|------|--|-------------------------|------------------|--|--------------------------------------|---|--|
|--------|-----------------|----------|--------------|------|--|-------------------------|------------------|--|--------------------------------------|---|--|

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) |
|-------|---------------------------------|----------|-------------------|--------------------------------|-------|---------------|-----------|---|
|-------|---------------------------------|----------|-------------------|--------------------------------|-------|---------------|-----------|---|

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) |
|-------|-----------------------|------------------------------|---------------------|-------------------------|-------------------------|
|-------|-----------------------|------------------------------|---------------------|-------------------------|-------------------------|

Date :11/06/2024

Place : *Purulia*

DEEPAK KUMAR AGARWAL

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