

Ref.: SIPL/ES/2022-23

Date: 20th, October 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 Shakambhari Ispat & Power Limited,
Vill-Madandih, PO-Bartoria, Dist-Purulia (WB)-723121**

Dear Sir,

With reference to above subject we are submitting the Environment Statement (Form-V) for financial year ending the 31st March, 2023 of M/s Shakambhari Ispat & Power Limited, Vill-Madandih, PO-Bartoria, Dist-Purulia (WB), for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

for **Shakambhari Ispat & Power Limited**

(Authorized Signatory)
20/10/23

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 Shakambhari Ispat & Power Limited
Village: Madandih, P.O: Bartoria ,P.S: Neturia,
Dist: Purulia (WB)-723121

ii. Industry category Primary – Large Secondary – Red

iii. Production category – Iron & Steel

iv. Year of establishment – (Our Group has acquired this establishment in October - 2010)

v. Date of the last environmental statement submitted- 20th October 2022

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process : 746.35 m³/day
Cooling : 2733.65 m³/day
Domestic : 30.00 m³/day

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	0.60 m ³ /T	0.54 m ³ /T
M S Billet	0.57 m ³ /T	0.44 m ³ /T
TMT Bar & wire Rod	0.45 m ³ /T	0.45 m ³ /T
Ferro Alloys	1.14 m ³ /T	1.14 m ³ /T
Electricity	0.82 m ³ /MW	0.75 m 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 (2021-22)	During the current financial year (2022-23)
DRI Division			
Iron ore	Sponge iron	503	299
Iron ore pellet		1181	1,199
Coal		1051	1,043
Dolomite		46	50



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)
SMS Division			
Pig iron	MS Billet	123	112
Sponge Iron		893	885
Scrap		220	235
Rolling Mill			
MS Billet	TMT & Wire Rod	1094	1,037
FERRO Division			
Manganese Ore	Ferro Alloys (Fe Mn & Si Mn)	2352	1539
Coal		270	177
Coke		375	246
Dolomite		52	34
Quartz		165	108
Manganese slag		477	312
CPP			
Coal	Electricity	122 Kg/MW	15 Kg/MW
Dolochar		430Kg/MW	871 Kg/MW

* *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 discharged (Kg/Day)	Concentration of Pollutants discharged (mg/Nm3)	Percentage of variation from prescribed standards with reasons
a) Water	0	0	No industrial waste water discharge outside the factory premises.
b) Air			Below prescribed standards (Monitoring report attached)
PM – DRI 100 TPD (1 & 2)	58.41	32.19	
PM – DRI 100 TPD (3& 4)	49.08	25.32	
PM – DRI 350 TPD (1 & 2)	66.84	19.8	
PM – DRI 600 TPD	41.80	19.44	
PM SMS	14.75	26.17	
PM SAF -1	35.19	23.81	
PM SAF -2	31.98	21.76	
PM SAF -3	23.70	16.09	
PM SAF -4	41.55	28.12	
PM-CPP (CFBC Boiler)	75.85	21.22	
Sox-CPP	531.87	148.8	
Nox- CPP	215.18	60.2	
PM - CPP (AFBC Boiler)	51.47	23.94	
Sox-CPP	802.52	373.3	
Nox- CPP	305.70	142.2	



PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2021-22)	During the current financial year (2022-23)
Used oil form operation Maintenance	1.525	1.056
Used cotton waste from operation and maintenance	0.530	0.385

PART – E

Solid Wastes	Total Quantity (MT)	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
From Process	254271	2,91,866
From Pollution Control Facilities	143487	2,18,700
Quantity recycled or reutilized within the unit	163461	1,33,474
Disposal	234297	3,77,092

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	1,20,851	Used in CPP Power plant
Bag Filter Dust from DRI Coal Circuit	352	Coal Dust Used in CPP as a fuel
If Slag (after metal recovery)	58,761	Used in Road making & Land filling
Metal Recovery from IF slag	6,529	Reused in Induction furnace
CCM Scrap	824	Reused in Induction furnace
Fly ash from DRI & CPP	216119	Abandoned mines filling
Bottom ash /Bed ash	66,204	Used for land filling & road making
Ferro bag filter dust	2,229	Reused in process
Fe Mn Slag	2689	Used for Si-Mn production
Si-Mn Slag	36,008	It is being used for land filling & road construction

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.	135.00



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 Hazardous waste return Form -IV





ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia, Dist - Purulia, (WB)- 723121	Sampling Date	: 22.02.2023		
		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/63/Feb./A/1	Report No.	: ENV/63/Feb./TR(A)/1/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No. 1 & 2) (100 TPD each) (attached to common Stack)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 35.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.0
Capacity	: 100 TPD (each)	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 5.12 MT/hr./Kiln		
Pollution Control Device	: W.H.R.B with E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 152.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 9.78
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 75607.58
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 425.22
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.6
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
8.	a) Concentration of Particulate Matter (at 10.6% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 32.19
	b) Concentration of Particulate Matter (at 12% CO ₂)		(Vol.11.07) : 2017	: 36.44

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI 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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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia, Dist - Purulia, (WB)- 723121	Sampling Date	: 22.02.2023		
		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/63/Feb./A/II	Report No.	: ENV/63/Feb./TR(A)/II/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No. 3 & 4) (100 TPD each) (attached to common Stack)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 35.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.0
Capacity	: 100 TPD	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 5.12 MT/hr./Kiln		
Pollution Control Device	: E.S.P with W.H.R.B		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 149.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.36
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 80766.42
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 456.14
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.2
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
8.	a) Concentration of Particulate Matter (at 11.2% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 25.32
	b) Concentration of Particulate Matter (at 12% CO ₂)		(Vol.11.07) : 2017	: 27.12

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL
Quality Manager

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia, Dist - Purulia, (WB)- 723121	Sampling Date	: 22.02.2023		
		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/63/Feb./A/IV	Report No.	: ENV/63/Feb./TR(A)/IV/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hoods Over Induction Furnace (6 nos.) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.0
Capacity	: 25 MT/Heat (each furnace)	Height of sampling port (mtr.) (from G.L.)	: 19.0
Emission Due to	: Melting of Pig Iron, Sponge Iron and Scrap		
Fuel Used	: Electrically Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Yes		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 64.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 9.43
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 23489.18
5.	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	: 26.17

Remarks : Result relates only to the sample tested.
: During monitoring all furnaces were in operation.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL
Quality Manager

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		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/63/Feb./A/VI	Report No.	: ENV/63/Feb./TR(A)/VI/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln No. 7 (1 x 600 TPD)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G.L.)	: 72.0
Materials of Construction	: Concrete	Stack I.D. at sampling point (mtr.)	: 2.17
Capacity	: 600 TPD	Height of sampling port (mtr.) (from G.L.)	: 35.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 13.5 TPH/hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 198.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.94
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 89602.58
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 385.35
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.8
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
8.	a) Concentration of Particulate Matter (at 11.8% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 19.44
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 19.77

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

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Quality Manager

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		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/63/Feb./A/V	Report No.	: ENV/63/Feb./TR(A)/V/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln No. 5 & 6 (2 x 350 TPD) (attached to common Stack)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G.L.)	: 72.0
Materials of Construction	: Concrete	Stack I.D. at sampling point (mtr.)	: 2.60
Capacity	: 350 TPD (each)	Height of sampling port (mtr.) (from G.L.)	: 51.2
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 13.5 TPH/Kiln		
Pollution Control Device	: W.H.R.B with E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 188.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.68
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 140655.03
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 435.55
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.8
7.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
8.	a) Concentration of Particulate Matter (at 11.8% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 19.80
	b) Concentration of Particulate Matter (at 12% CO ₂)		(Vol.11.07) : 2017	: 20.13

Remarks : Result relates only to the sample tested.
: During monitoring both kilns were in operation

Reviewed By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL
Quality Manager

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Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)- 723121	Sampling Date	: 22.02.2023		
		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/63/Feb./A/III	Report No.	: ENV/63/Feb./TR(A)/III/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G.L.)	: 60.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.10
Capacity	: 36 TPH	Height of sampling port (mtr.) (from G.L.)	: 20.0
Emission Due to	: Combustion of Coal & Dolochar		
Fuel Used	: Coal & Dolochar	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Coal – 150 TPD & Dolochar – 132TPD		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 147.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.36
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 89575.03
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	: 373.30
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 142.20
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.0
8.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	: 8.4
9.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
10.	a) Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 23.94
	b) Concentration of Particulate Matter (at 6% O ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 28.50

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. Ajoy Paul

Dr. AJOY PAUL

Quality Manager 25299141

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



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	: Shakambhari Ispat & Power Ltd. (Ferro Division)	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia, Dist - Purulia, (WB)- 723121	Sampling Date	: 23.02.2023		
		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/63/Feb./A/VII	Report No.	: ENV/63/Feb./TR(A)/VII/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.1)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G.L.)	: 32.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.80
Capacity	: 9.0 MVA	Height of sampling port (mtr.) (from G.L.)	: 22.0
Emission Due to	: Reduction of Si-Mn Ore		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: F. D. Cooler and Pulse Jet Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 68.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 7.72
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 61573.53
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 392.0
6.	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	: 23.81

Remarks : Result relates only to the sample tested.

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd. (Ferro Division)	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)- 723121	Sampling Date	: 23.02.2023		
		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/63/Feb./A/VIII	Report No.	: ENV/63/Feb./TR(A)/VIII/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.2)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 32.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.80
Capacity	: 9.0 MVA	Height of sampling port (mtr.) (from G.L.)	: 22.0
Emission Due to	: Reduction of Si-Mn Ore		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: F. D. Cooler and Pulse Jet Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 72.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 7.77
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 61242.48
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 359.86
6.	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	: 21.76

Remarks : Result relates only to the sample tested.

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)- 723121	Sampling Date	: 23.02.2023		
		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/63/Feb./A/IX	Report No.	: ENV/63/Feb./TR(A)/IX/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.3)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 32.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.80
Capacity	: 9.0 MVA	Height of sampling port (mtr.) (from G.L.)	: 22.0
Emission Due to	: Reduction of Si-Mn Ore		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: F. D. Cooler and Pulse Jet 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.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 7.74
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 61373.08
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 411.27
6.	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	: 16.09

Remarks : Result relates only to the sample tested.

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd. (Ferro Division)	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)– 723121	Sampling Date	: 23.02.2023		
		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/63/Feb./A/X	Report No.	: ENV/63/Feb./TR(A)/X/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: SEAF (No.4)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G.L.)	: 32.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.80
Capacity	: 9.0 MVA	Height of sampling port (mtr.) (from G.L.)	: 22.0
Emission Due to	: Reduction of Si-Mn Ore		
Fuel Used	: N.A. (Electrically Operated)	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: F. D. Cooler and Pulse Jet Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 69.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 7.74
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 61564.72
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 339.73
6.	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	: 28.12

Remarks : Result relates only to the sample tested.

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TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Shakambhari Ispat & Power Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Madandih, P.O. - Bartoria, P.S. - Neturia, Dist - Purulia, (WB)- 723121	Sampling Date	: 22.02.2023		
		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/63/Feb./A/XV	Report No.	: ENV/63/Feb./TR(A)/XV/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: CFBC Boiler		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 92.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.60
Capacity	: 100 TPH	Height of sampling port (mtr.) (from G.L.)	: 51.2
Emission Due to	: Combustion of Coal & Dolochar		
Fuel Used	: Coal & Dolochar	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Coal - 12.5MT/hr. & Dolochar - 8.33 MT/hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 190.0
2.	Barometric Pressure	mm of Hg.	--	: 758.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 12.20
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 148932.11
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	: 148.50
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 7) : 2017 / ASTM D 1608-98, Sec. 11 (Vol. 11.07) : 2017	: 60.20
7.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 11.4
8.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	: 6.4
9.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
10.	a) Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 21.22
	b) Concentration of Particulate Matter (at 6% O ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 21.80

Remarks : Result relates only to the sample tested.

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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 : 3929446

Period : 2022-2023

1. Name of facility/Industry Industry Address of facility/Industry	SHAKAMBHARI ISPAT & POWER LTD. Vill-Madandih, PO-Bartoria, PS-Neturia, Dist-Purulia (WB)			
2. UID	WB0016102592			
3. Authorisation No Date of issue: Date of Expiry	47/2S(HW)-3632/2019 24/03/2021 31/10/2024			
4. (i) Name of the authorised person & Designation	Deepak Kumar Agarwal Director			
(ii) Correspondence Address	SHAKAMBHARI ISPAT & POWER LTD. Vill-Madandih, PO-Bartoria, PS-Neturia, Dist-Purulia-723121 (WB)			
(iii) Mobile No	9233331111			
(iv) Land Line No (with area code)	0343-66255252			
(iv) Fax number (with area code)				
(vi) e-mail	cmd@shakambharigroup.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	SPONGE IRON	542844	Metric Ton
	2	TMT Bar & Wire Rod	300504	Metric Ton
	3	Fe-Mn & Si-Mn	61531	Metric Ton
	4	M.S. BILLET	407448	Metric Ton

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 recycler or coprocessors or preprocessor	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	0.049 Metric Tonnes/Y ear	1.056 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	1.056 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	0.385 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.385 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
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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	SHAKAMBHARI ISPAT & POWER LIMITED	Purulia	Sending	Nilay Narayan Plochem LLP	Jharkhand	Used Oil	1.056 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 : 22/08/2023

Place : Purulia

DEEPAK KUMAR AGARWAL

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