

Ref.: SIPL/ES/2024-25

Date: 30.09.2025

The Environmental Engineer

West Bengal Pollution Control Board

Asansol Regional Office

Klyanpur Satellite Township Project

Dr. B.C. Roy Road, PO-Dakshin Dhadka, Asansol-713302

Dist.-Paschim Bardhaman (WB)

Sub: Environment Statement (FY: 2024-2025) of M/s Shakambhari Ispat & Power Ltd. Vill-Madandih, PO-Bartoria, P.S-Neturia, Dist.-Purulia-723121

Dear Sir,

With reference to above subject we are submitting herewith the Environment Statement (Form-V) for financial year (2024-25) ending 31st March, 2025 of M/s Shakambhari Ispat & Power Limited Village-Madandih, PO-Bartoria, PS- Neturia, Dist.- Purulia, WB for your kind consideration please.

Kindly acknowledge our submission.

Thanking you,

Yours faithfully,

For **Shakambhari Ispat & Power Limited.**

(Authorized Signatory)

Encl: As above.



Copy to:

The Deputy Director General of Forest (DDGF), GOI, MoEF&CC, Sub Office, Kolkata, IB-198, Salt Lake City, Sector-III, Kolkata- 700106

FORM – V
ENVIRONMENTAL STATEMENT
(See rule 14)

Environmental Statement for the financial year 2024-25 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, PIN -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: 29/08/2024

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process: 1361 m³/d
Cooling: 3812 m³/d
Domestic: 60 m³/d

Name of Products	Process water consumption (m ³) per unit of products	
	During the previous financial year (2023-24)	During the current financial year (2024-25)
Sponge Iron	0.48 m ³ /T	0.31 m ³ /T
M S Billet	0.39 m ³ /T	0.42 m ³ /T
TMT Bar & wire Rod	0.58 m ³ /T	0.41 m ³ /T
Ferro Alloys	2.18 m ³ /T	1.78 m ³ /T
Electricity	1.04 m ³ /MW	1.14 /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 (2023-24)	During the current financial year (2024-25)
DRI Division			
Iron ore	Sponge iron	599	466
Iron ore pellet		973	1044
Coal		1057	1016
Dolomite		46	48
SMS Division			
Pig iron	MS Billet	162	154
Sponge Iron		875	853
Scrap		126	190
Ferro Alloys		18	19
Rolling Mill			
MS Billet	TMT & Wire Rod	1037	1039
FERRO Division			
Manganese Ore	Ferro Alloys (Fe Mn & Si Mn)	1975	2019
Coal		153	173
Coke		442	480
Dolomite		48	86
Quartz		206	294
Manganese slag		311	339
CPP (CFBC+AFBC Boiler) excluding power generation from WHRB			
Coal	Electricity)	152 Kg/MW	554 Kg/MW
Dolochar		613 Kg/MW	474 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 wastewater discharge outside the factory premises.
b) Air			Concentration of pollutants are below the prescribed standards (Monitoring reports attached)
PM – DRI 100 TPD (1 & 2)	67.96	34.06	
PM – DRI 100 TPD (3& 4)	99.82	42.40	
PM – DRI 350 TPD (5 & 6)	132.43	40.57	
PM – DRI 600 TPD (7)	68.34	30.63	
PM – DRI 600 TPD (8)	58.15	26.55	
PM - SMS	14.42	20.80	
PM SAF -1	31.18	20.00	
PM SAF -2	43.72	24.55	
PM SAF -3	43.73	26.20	
PM SAF -4	42.01	22.88	
PM SAF -5	-	-	
PM SAF -6	49.73	21.53	
PM-CPP (CFBC Boiler 100 TPH)	87.09	22.20	
Sox-CPP	343.01	87.44	
NOx- CPP	273.85	69.81	
PM - CPP (AFBC)	47.66	21.65	
Sox-CPP	193.36	87.83	
NOx- CPP	134.56	61.12	

Monitoring reports attached

PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the previous financial year (2023-24)	During the current financial year(2024-25)
Used oil from operation Maintenance	1.82	1.104
Used cotton waste from operation and maintenance	0.385	0.390



PART – E

Solid Wastes	Total Quantity (MT)	
	During the current financial year (2023-24)	During the current financial year (2024-25)
From Process	2,89,277	2,98,192
From Pollution Control Facilities	2,17,083	1,91,230
Quantity recycled or reutilized within the unit	1,53,519	1,70,272
Sold	814	-
Disposal	3,52,028	3,19,150

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of wastes.

Solid waste Type	Quantity (TPA)	Disposal System
Dolochar	1,27,727	Used in CPP Power plant
Bag Filter Dust from DRI Coal & Iron Circuit	1,810	Coal Dust Used in CPP as a fuel and iron dust provided to pellet plant
IF Slag (after metal recovery)	70,751	Used in Road making & Landfilling
Metal Recovery from IF slag	7,861	Reused in Induction furnace
CCM Scrap	1,035	Reused in Induction furnace
Fly ash from DRI & CPP	1,86,509	Provide to brick/cement manufacturer and used for abandoned mine filling
Bottom ash /Bed ash	24,948	Used for landfilling & road making
Ferro bag filter dust	2,911	Reused in process
Fe Mn Slag	28,927	Used for Si-Mn production
Si-Mn Slag	36,941	It is being used for landfilling & road construction

PART – G

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

A list of Environmental Management Programmes (EMPs) is 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.	106.00



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) Environmental Monitoring reports
- 2) Copy of hazardous waste annual return.





ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO.- NABET/EIA/2326/IA 0117)
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 - 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/VI
			Report No.	:	ENV/28/Feb./TR(A)/VI/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 1 & 2 100 TPD 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.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	485.05
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	10.6
3.	Concentration of CO	%(v/v)	IS 13270 : 2019	<1.0
4.	a) Concentration of Particulate Matter (at 10.611% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	34.06
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	38.56

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. AJOY PAUL
 Quality Manager

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TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/VII
			Report No.	:	ENV/28/Feb./TR(A)/VII/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln No. 3 & 4 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	:	E.S.P with W.H.R.B				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 473.87
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.8
3.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
4.	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	: 42.40
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 47.11

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. AJOY PAUL
 Quality Manager

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TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/VIII
			Report No.	:	ENV/28/Feb./TR(A)/VIII/24-25

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	:	R.C.C	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	:	Combustion 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.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 474.76
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.8
3.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
4.	a) Concentration of Particulate Matter (at 10.8% CO ₂)	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 40.57
	b) Concentration of Particulate Matter (at 12% CO ₂)		(Vol.11.07) : 2017	: 45.07

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. AJOY PAUL
 Quality Manager

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TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/IX
			Report No.	:	ENV/28/Feb./TR(A)/IX/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	435.20
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	11.0
3.	Concentration of CO	%(v/v)	IS 13270 : 2019	<1.0
4.	a) Concentration of Particulate Matter (at 11% CO ₂)	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	30.63
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	33.41

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

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			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/X
			Report No.	:	ENV/28/Feb./TR(A)/X/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No.8)
Shape of Stack	:	Circular
		Height of Stack (mtr.) (from G. L.) : 72.0
Materials of Construction	:	RCC
		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, Iron Ore & Dolomite
Fuel Used	:	Coal
		Permanent Platform & Ladder : Yes
Working Fuel Consumption	:	14.4 TPH
Pollution Control Device	:	E.S.P with WHRB

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	478.42
2.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	11.0
3.	Concentration of CO	%(v/v)	IS 13270 : 2019	<1.0
4.	a) Concentration of Particulate Matter (11% CO ₂)	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	26.55
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	(Vol.11.07) : 2017	28.34

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

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TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/XIII
			Report No.	:	ENV/28/Feb./TR(A)/XIII/24-25

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	:	RCC
		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 – 12.5 MT/hr. & Dolochar – 8.33 MT/hr.
Pollution Control Device	:	E.S.P

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	87.44
2.	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	69.81
3.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	11.0
4.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	8.45
5.	Concentration of CO	%(v/v)	IS 13270 : 2019	<1.0
6.	a) Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	22.20
	b) Concentration of Particulate Matter (at 6% O ₂)	mg/Nm ³	(Vol.11.07) : 2017	26.42

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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ENVIROCHECK

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 Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO.- NABET/EIA/2326/IA 0117)
 Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TC-6014

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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/XIV
			Report No.	:	ENV/28/Feb./TR(A)/XIV/24-25

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.)
	:	2.1
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 – 148 TPD & Dolochar – 222 TPD
Pollution Control Device	:	E.S.P

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) : 2019	: 87.83
2.	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	: 61.12
3.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 10.2
4.	Concentration of O ₂	% (v/v)	EPA Method 3 : 2017	: 8.6
5.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
6.	a) Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part – 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 21.65
	b) Concentration of Particulate Matter (at 6% O ₂)	mg/Nm ³	(Vol.11.07) : 2017	: 26.18

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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TC-6014

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	:	09.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/I
			Report No.	:	ENV/28/Feb./TR(A)/1/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	20.0

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.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)– 723121	Sampling Date	:	09.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/II
			Report No.	:	ENV/28/Feb./TR(A)/II/24-25

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 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. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	24.55

Remarks : Result relates only to the sample tested.

Reviewed By :

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TC-6014

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	:	09.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/III
			Report No.	:	ENV/28/Feb./TR(A)/III/24-25

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 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. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	26.20
Remarks : Result relates only to the sample tested.				

Reviewed By :

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TC-6014

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	:	09.02.2025
			Period of Analysis	:	18.02.2025 - 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/IV
			Report No.	:	ENV/28/Feb./TR(A)/IV/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	22.88

Remarks : Result relates only to the sample tested.

Reviewed By :

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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	:	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	:	09.02.2025
			Period of Analysis	:	18.02.2025 - 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/V
			Report No.	:	ENV/28/Feb./TR(A)/V/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	SEAF (No.6)
Shape of Stack	:	Circular
Materials of Construction	:	M.S.
Capacity	:	9.0 MVA
Emission Due to	:	Reduction of Mn-Ore
Fuel Used	:	N.A. (Electrically Operated)
Working Fuel Consumption	:	Nil
Pollution Control Device	:	F. D. Cooler and Pulse Jet Bag Filter
Height of Stack (mtr.) (from G. L.)	:	32.0
Stack I.D. at sampling point (mtr.)	:	2.23
Height of sampling port (mtr.) (from G.L.)	:	17.67
Permanent Platform & Ladder	:	Yes

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	21.53

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.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Madandih, P.O. – Bartoria, P.S. – Neturia, Dist – Purulia, (WB)– 723121	Sampling Date	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/XI
			Report No.	:	ENV/28/Feb./TR(A)/XI/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Product House of (100 TPD) DRI
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.)
	:	0.8
Capacity	:	--
		Height of sampling port (mtr.) (from G.L.)
	:	13.0
Emission Due to	:	Process
Fuel Used	:	Nil
		Permanent Platform & Ladder
	:	Yes
Working Fuel Consumption	:	Yes
Pollution Control Device	:	Bag Filter

B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	22.59

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

Reviewed By :

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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	:	08.02.2025
			Period of Analysis	:	18.02.2025 – 19.02.2025
			Date of Issue	:	21.02.2025
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/28/Feb./A/XII
			Report No.	:	ENV/28/Feb./TR(A)/XII/24-25

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Hoods Over Induction Furnace
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. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	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	20.80

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

Reviewed By :

Indrani Bhattacharya

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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 : 6774685

Period : 2024-2025

1. Name of facility/Industry Industry Address of facility/Industry	SHAKAMBHARI ISPAT & POWER LTD. Vill-Madandih, PO-Bartoria, PS-Neturia, Dist-Purulia, Pin-723121																										
2. UID	WB0016102592																										
3. Authorisation No Date of issue: Date of Expiry	WBPCB/5132785/2024 21/08/2024 31/10/2029																										
4. (i) Name of the authorised person & Designation	Deepak Kumar Agrawal Director																										
(ii) Correspondence Address	Vill-Madandih, PO-Bartoria, PS-Neturia, Dist-Purulia, Pin-723121																										
(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.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	<table border="1"> <thead> <tr> <th>Sr.no</th> <th>Product Name</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SPONGE IRON</td> <td>724019</td> <td>Metric Ton</td> </tr> <tr> <td>2</td> <td>M.S. BILLET</td> <td>491586</td> <td>Metric Ton</td> </tr> <tr> <td>3</td> <td>TMT BAR & WIRE ROD</td> <td>444068</td> <td>Metric Ton</td> </tr> <tr> <td>4</td> <td>Fe-Mn</td> <td>32141</td> <td>Metric Ton</td> </tr> <tr> <td>5</td> <td>Si-Mn</td> <td>43460</td> <td>Metric Ton</td> </tr> </tbody> </table>			Sr.no	Product Name	Quantity	Unit	1	SPONGE IRON	724019	Metric Ton	2	M.S. BILLET	491586	Metric Ton	3	TMT BAR & WIRE ROD	444068	Metric Ton	4	Fe-Mn	32141	Metric Ton	5	Si-Mn	43460	Metric Ton
Sr.no	Product Name	Quantity	Unit																								
1	SPONGE IRON	724019	Metric Ton																								
2	M.S. BILLET	491586	Metric Ton																								
3	TMT BAR & WIRE ROD	444068	Metric Ton																								
4	Fe-Mn	32141	Metric Ton																								
5	Si-Mn	43460	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 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	0.050 Metric Tonnes/Y ear	1.054 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	1.104 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	0.390 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.390 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	SHAKAMBHARI ISPAT & POWER LTD.	Purulia West Bengal	Sending	New Lubrisales India Pvt.Ltd.	Rajasthan	Used Oil	1.104 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)

Date :15/05/2025

Place : *Purulia*

DEEPAK KUMAR AGARWAL

Name of the Occupier or Operator of the disposal facility