

BRAVO SPONGE IRON PRIVATE LIM

CIN: U27106WB1997PTC082921 | GSTIN: 19AACCB5058J1ZH | PAN: AACCB5058J | State: West Bengal | State Code: 19

Ref.: BSIPL/ES/2023-24

Date: 22 September, 2024

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 Bardhhaman (WB)

Sub: Environmental Statement (FY: 2023-24) of M/S Bravo Sponge Iron Pvt. Limited, Village- Mahuda, P.O-Rukni, P.S-Para, Dist.-Purulia, Pin- 723145.

Dear Sir,

With reference to above subject we are submitting herewith the Environmental Statement (Form-V) for financial year ending 31st March, 2024 of M/s Bravo Sponge Iron Pvt. Limited Vill-Mahuda, P.O-Rukni, P.S.-Para, Dist.-Purulia (WB) for your kind consideration please.

Kindly acknowledge our submission.

Thanking you and with regards,

Yours faithfully,

For Bravo Sponge Iron Pvt. Limited

(Authorized

Encl: As above

Copy to:

Ministry of Environment, Forest & Climate Change (MoEF&CC) GOI, 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 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 Bravo Sponge Iron Pvt. Ltd. Village- Mahuda, P.O-Rukni, P.S-Para, Dist: Purulia, Pin- 723145.

- ii. Industry category Primary Large Secondary Red
- iii. Production category Iron & Steel
- iv. Year of establishment -2003-04 (Our Group has acquired this establishment in June- 2015)
- v. Date of the last environmental statement submitted: 18th October 2023

PART – B

Water and Raw Material Consumption:

i. Water consumption in m³/day

Process:

1311 m³/d

Cooling:

751 m³/d

Domestic:

 $30 \, m^3/d$

Domestic.	-	30 111 /	u

	Process water consumptio	n (m ³) per unit of products
Name of Products	During the previous financial year (2022-23)	During the current financial year (2023-24)
SPONGE IRON	0.36 m ³ /T	0.48 m ³ /T
MS Billet	0.46 m ³ /T	0.58 m ³ /T
Pellet and Producer Gas	0.23 m ³ /T	$0.22 \text{m}^3/\text{T}$
Electricity	0.58 m ³ /MW	0.81 m ³ /MW



ii. Raw material consumption

Name of raw	Name of	Consumption of raw material per unit of output (Kg/T)						
materials*	Products	During the previous financial year (2022-23)	During the current financial year (2023-24)					
DRI DIVISION								
Iron Ore	Sponge	352	234					
Iron ore Pellet	Iron	1173	1,233					
Coal		1045	1,075					
Dolomite		49	41					
		SMS Division						
Pig Iron		60	90					
Sponge Iron	MS Billet	978	987					
Scrap	IVIS Billet	266	226					
Ferro alloys		6	14					
		PELLET DIVISION						
Iron ore fines	Pellet	1181	1,151					
Bentonite		7	7					
Lime stone		12	4					
Coal		11	12					
PGP Gas		-	56,295					
High Carbone fines		-	9.130					
		Producer Gas Plant						
Coal		-	0.424 Kg/Nm3					
		CPP DIVISION						
Coal	Electricity	20 Kg/MW	58 Kg/MW					
Dolochar		938 Kg/MW	483 Kg/MW					

^{* &}lt;u>Industry may use codes</u> 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)

(a) Water

Pollutants	Quantity of Pollutants discharged (Kg/day)	Concentration of pollutants discharged (mg/Nm3)	Percentage of variation form prescribed standards with reasons
a) Water	0	0	No Industrial waste water being discharged outside the factory premises.
B) Air			
PM- DRI Kiln 1&2 (100TPD & 95 TPD)	63.34	37.04	
PM- DRI Kiln 3 & 4 (2x100 TPD)	50.91	28.59	
PM-DRI Kiln-5 (1x350 TPD)	64.26	30.80	229
PM SMS	6.98	34.51	Monitoring report form
PM PELLET Plant Unit-1	141.48	26.50	NABL accredited
PM PELLET Plant Unit-2	123.99	23.50	laboratory attached
PM CPP (AFBC)	46.91	16.99	
SO2 -CPP	238.81	86.50	
NOx -CPP	133.07	48.20	oge Iro

Monitoring reports attached

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

Hazardous Wastes	Total Q	uantity (MT)
	During the current financial year (2022-23)	During the current financial year (2023-24)
Used oil from operation/ Maintenance	1.108	1.423
Cotton waste from cleaning	0.260	0.270
Coal Tar/Tarry residue from PGP plant	40.88	142.14

PART - E

Solid Wastes	Total Qu	nantity (MT)			
	During the previous financial year (2022-23)	During the current financial year (2023-24)			
From Process	57838	70871			
From Pollution Control Facilities	61993	72280			
Quantity recycled or reutilized within the unit	48681	56844			
Sold	52111	59610			
Disposed	19040	26697			

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	43028	Used in CPP power plant
Fly Ash	59610	Sold to Brick manufacturing
Bottom Ash/Bed material	13777	land filling & road making
BF flue dust from DRI	6682	Used in Pellet pant and CPP pant
IF Slag	12660	Used in road construction and land filling
Metal from SMS Slag	1407	Reused in SMS
BF flue dust (SMS)	260	Used for land filling
Pellet plant Dust	5728	Reused in Pellet plant



PART - G

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

List of Environmental Management Programme (EMPs) are given below-

Description	Expenditure for Pollution Control measures on Conservation of Natural Resources (Rs. in lakhs)
Total Cost towards Air Pollution Control Measures, Environmental Monitoring, EHS Management & Training, Waste Management System, Green Belt Development (Plantation & Plant Maintenance), CER, etc.	72.00

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) Copy of analysis report Annexure -1.
- 2) Copy of form -4 Annual return of Hazardous waste as Annexure -2.









FORMAT NO: ENV/FM/38

Name of the	7	Bravo Sponge I	avo Sponge Iron Pvt. Ltd.		fino	iustry	1	Steel & Pow	ver Unit		
Industry			no Pulmi DC - Para Purulia -	Sampli	ing I)ate	1	20.02.2024			
Address	723145	THE WAY DON'T SHEET TO SELECT THE TANK	Vill Mohuda. P.O Rukni, P.S Para, Purulia -			Period of Analysis			02.03.2024 - 02.03.2024		
		743145		The second secon	Date of Issue			: 04.03.2024 Type of Sample : Stack Emission			
Sampling Plan &		ENV/SOP/01	01 Deviation from the Sampling Method		and Plan : No		Туре				
Procedure			PART (02 (Morch / A /)	Repor	t No		ENV	/03/March/T	R(A)/1/23-24		
Sample Condition	1:	Sealed Samp	ole ID No. : ENV/03/March/A/I	Kenor		1.1.2					

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	AFBC Boiler	T	1	45.0			
Shape of Stack	1	Circular	Height of Stack (mtr.) (from G. L.)	1				
Materials of	:	M.S.	Stack LD. at sampling point (mtr.)	1	2.20			
Construction		20 TPH	Height of sampling port	1	16.0			
Capacity	+	20 1111	(mtr.) (from G.L.)					
Emission Due to	:	Combustion of Coal & Dolochar			: Yes			
Fuel Used	1	Coal & Dolochar	Permanent Platform & Ladde	T.	: Yes			
Working Fuel Consumption	:	Coal - 110 TPD & Dolochar - 130 TPD						
Pollution Control Device	:	E.S.P with W.H.R.B		_				

B. RESULTS

SL.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	The second secon		IS: 11255 (Part 1)	100	138.0
1.	Flue Gas Temperature	oC	15: 11253 (Fait 1)		755.0
	Barometric Pressure	mm of Hg.	IS: 11255 (Part 3)		11.93
	Velocity of Gas flow	m/s	IS: 11255 (Part III)		115035.40
	Quantity of Gas flow	Nm ² /hr.	IS 11255 (Part 2): 2019	2	86.50
	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 7): 2017 / ASTM D 1608-98,		48.20
j	Concentration of NOx (at 6% O2)	mg/Nm ³	Sec. 11 (Vol. 11.07) : 2017	9.5	XOTOTES:
			IS 13270 : 2019	19	7.4
7.	Concentration of CO2	% (v/v)	EPA Method 3 : 2017		10.6
3.	Concentration of O ₂	% (v/v)	IS 13270 : 2019	21.5	<1.0
9.	Concentration of CO	%(v/v)	IS 11255 (Part - 1): 2019 & ASTM D 3685/D		16.99
	a) Concentration of Particulate	mg/Nm³	[S 11255 [Part = 1] ; 2019 & ASTM D 5005/D	32	
	Matter b) Concentration of Particulate Matter (at 6% CO ₂)	mg/Nm³	3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	000	24.50

Remarks : Result relates only to the sample tested.

Reviewed By:

Indrawi Bhattacharyga_ INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Authorised Signatory:

Dr. AJOY PAUL Quality Managet

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Branch Office: Siliguri * Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Dehradun * New Delhi

Overseas : UAE * Qatar * Netherlands







FORMAT NO: ENV/FM/38

Name of the Industry	1000	Bravo Sponge	ron Pvt. Li	d.		Туре о	f In	ndustry		•	Steel & Po	wer	Unit
Address	:	Vill Mohuda.	P.O Ruk	Sampling Date			18	1	20.02.2024				
	723145 Period of Analysis Date of Issue		is	;	02.03.2024 - 02.03.2024								
			Date of Issue				:	04.03.2024					
Sampling Plan & Procedure	13	ENV/SOP/01	Deviation from the Sampling Method a			d Plan	:	No	Type of Sample			Stack Emission	
Sample Condition	12	Sealed Samp	le ID No.		ENV/03/March/A/II	Repor	t No	. 3	ENV	ENV/03/March/T			A)/I1/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	1:	Rotary Kiln (No. 1 & 2) attached with co	mmon stack		
Shape of Stack	1	Circular	Height of Stack (mtr.) (from G. L.)	:	30.0
Materials of Construction		M.S.	Stack LD. at sampling point (mtr.)	1%	1.9
Capacity	;	No.1-100 TPD & No.2-95TPD	Height of sampling port (mtr.) (from G.L.)		14.0
Emission Due to	3	Oxidation of Coal & Reduction of Fe-Ore			
Fuel Used	1	Coal	Permanent Platform & Ladd	er	: Yes
Working Fuel - Consumption	:	5.12 MT/hr. (each Kiln)			
Pollution Control Device	1	E.S.P with W.H.R.B			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	oC	IS 11255 (Part 1)	(\$1	162.0
2.	Barometric Pressure	mm of Hg.		1	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		10.55
4.	Quantity of Gas flow	Nm3/hr.	IS 11255 (Part III)	:	71256.67
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	2	112.0
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		11.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	1	<1.0
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D		37.04
	Matter (at 11% CO ₂)		3685M-98 (reapproved 2005) : Sec. 11		
	b) Concentration of Particulate	mg/Nm ³	(Vol.11.07): 2017	- 1	40.40
	Matter (at 12% CO ₂)				

Reviewed By:

Indrawi Blattacharysa INDRANI BHATTACHARYA Dy. Technical Manager, Chemical Authorised Signatory :

Dr. AJOY PAUL Quality Manager

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Overseas : UAE * Qatar * Netherlands







FORMAT NO: ENV/FM/38

Name of the Industry	:	Bravo Sponge I	ron Pvt. Ltd.	Type	of In	dustry			Steel & Po	wer	Unit
Address	:		P.O. – Rukni, P.S. – Para, Purulia –	Samp	errore de la constante de la c	-		:	20.02.202	-	
		723145		Perio	Period of Analysis		S	1	02.03.202	24 - 02.03.2024	
			A STATE OF THE STA	Date	of Iss	ue		1	04.03.202	4	
Sampling Plan & Procedure	ः	ENV/SOP/01	Deviation from the Sampling Method	and Plan	:	No	Tyj	Type of Sample		:	Stack Emission
Sample Condition	:	Sealed Samp	le ID No. : ENV/03/March/A/III	Repo	rt No	. :	EN	ENV/03/March/			A)/III/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	1	Rotary Kiln (No. 3 & 4) attached with co	mmon stack				
Shape of Stack	:	Circular	cular Height of Stack (mtr.) (from G. L.)				
Materials of Construction	1	M.S.	Stack I.D. at sampling point (mtr.)		1.80		
Capacity	:	100 TPD (each kiln)	Height of sampling port (mtr.) (from G.L.)	200	15.0		
Emission Due to	1	Oxidation of Coal & Reduction of Fe-Ore					
Fuel Used	:	Coal	Permanent Platform & Lac	lder	: Yes		
Working Fuel Consumption	:	5.12 MT/hr. (each Kiln)			1 mp II many		
Pollution Control Device	:	E.S.P with W.H.R.B					

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	оС	IS 11255 (Part 1)	:	158.0
2.	Barometric Pressure	mm of Hg.	Printed and Conference Services Services Services Services	200	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	\$3 S	12.11
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	20	74199.58
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003		130.50
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		11.8
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate Matter (at 11.8% CO ₂)	mg/Nm³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11		28.59
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm³	(Vol.11.07): 2017	:	29.07

Remarks

Reviewed By:

Indrani Blattacharyja INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL Quality Manager

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: UAE * Qatar * Netherlands







FORMAT NO: ENV/FM/38

Name of the Industry	1	Bravo Sponge I	ron Pvt. Lt	d.		Туре	of In	dustry	1	Steel & Po	wei	Unit
Address	:	Vill Mohuda.	P.O Ruk	ni, F	.S. – Para, Purulia –	Samp	ing	Date	0 :	20.02.202	4	
		723145				Period	l of	Analys	S :	02.03.202	4 -	02.03.2024
		350 501-2022				Date o	f lss	ue		04.03.202	4	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation	n fro	om the Sampling Method	and Plan	1	No	Туре	of Sample	1	Stack Emission
Sample Condition	1	Sealed Samp	le ID No.	8:	ENV/03/March/A/IV	Repor	t No	3	ENV	/03/March/	TR(A)/IV/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln - 350 TPD			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	1	45.0
Materials of Construction	:	RCC	Stack I.D. at sampling point (mtr.)	1	2.0
Capacity	16	350 TPD	Height of sampling port (mtr.) (from G.L.)	:	
Emission Due to	:	Combustion of Coal & Reduction of Fe-Or	re	(C)	
Fuel Used	:	Coal	Permanent Platform & Ladd	er	: Yes
Working Fuel Consumption	1	101 MT/MT of DRI			
Pollution Control Device	1	E.S.P			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS	
1.	Flue Gas Temperature	oC.	IS 11255 (Part 1)	:	204.0	
2.	Barometric Pressure	mm of Hg.	The state of the s		755.0	
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	12.74	
4.	Quantity of Gas flow	Nm3/hr.	IS 11255 (Part III)		86925.19	
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003		121.84	
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		12.2	
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003		<1.0	
8.	a) Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D	64	31.32	
	Matter (at 12.2% CO ₂)		3685M-98 (reapproved 2005) : Sec. 11			
	b) Concentration of Particulate	mg/Nm3	(Vol.11.07): 2017	:	30.80	
	Matter (at 12% CO ₂)				***************************************	

Result relates only to the sample tested. Remarks

Reviewed By:

Indrawi Blattackeryya INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Authorised Signatory:

Dr. AJOY PAUL Quality Manager

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: UAE . Qatar . Netherlands







FORMAT NO: ENV/FM/38

Name of the Industry	1	Bravo Sponge I		Type o			1	Steel & Pov		Unit
Address	1	Vill - Mohuda	P.O Rukni, P.S Para, Purulia -	Sampli	ng.	Date	- :	20.02.202	1	
Address		723145	1.00	Period of Analysis		s :	02.03.202	02.03.2024 - 02.03.2024		
		7,40,70		Date o	f Iss	ue	1	04.03.202	4	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method	and Plan	ः	No		of Sample	Ø.	Stack Emission
Sample Condition	1	Sealed Samo	le ID No. : ENV/03/March/A/VI	Repor	t No	. :	ENV	/03/March/	TR(A)/VI/23-24

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Hood Over 2 nos. Induction Furnace (att	ached with common stack]		
Shape of Stack		Circular	Height of Stack (mtr.) (from G. L.)	:	30.6
Materials of Construction	1	M.S.	Stack I.D. at sampling point (mtr.)	1 19	0.6
Capacity	:	15 MT/Charging (each furnace)	Height of sampling port (mtr.) (from G.L.)	18	
Emission Due to	:	Melting of Sponge Iron, Pig Iron Scraps e	tc.		
Fuel Used	:	Electricity Operated	Permanent Platform & Lac	lder	: Yes
Working Fuel * Consumption	:	Nil			
Pollution Control Device	:	Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
NO.	Flue Gas Temperature	°C	IS 11255 (Part 1)	3	64.0
2.	Barometric Pressure	mm of Hg.	DESCRIPTION OF STREET	1	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)		9.45
ł.	Quantity of Gas flow	Nm3/hr.	IS 11255 (Part III)	33	8438.91
5.	Concentration of Particulate	mg/Nm³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol.11.07):	:	34.51
	Matter		2017		

The Treatment of the Control of the

Reviewed By:

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Authorised Signatory:

Dr. AJOY PAUL Quality Manager

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Overseas : UAE * Qatar • Netherlands







FORMAT NO: ENV/FM/38

Name of the Industry	:	Bravo Sponge I	ron Pvt. Ltd.	Type o	flno	lustry	:	Steel & Po			
Address		Vill. – Mohuda. 723145	P.O. – Rukni, P.S. – Para, Purulia –	Sampli Period	received the first of		is :	20.02.202		02.03.2024	
		NAT ALBUMANIA DI		Date o	flss	ue		04.03.202	4		
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method	and Plan	is:	No	Type	of Sample	1	Stack Emission	
Sample Condition	1	Sealed Samp	le ID No. : ENV/03/March/A/VIII	Report	No.	:	ENV/	/03/March/	TR(A)/VIII/23-24	

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	1:0	Fe-Ore Pellet Formation Stack (No.2)				
Shape of Stack	2	Circular	Height of Stack (mtr.) (from G. L.)	3	50.0	
Materials of Construction	1	RCC	Stack L.D. at sampling point (mtr.)	:	3.0	
Capacity	10	2500 MT/Day	Height of sampling port (mtr.) (from G.L.)	8:		
Emission Due to	1	Combustion of Producer Gas & PCI Coal		-		
Fuel Used	1	Producer Gas & PCI Coal	Permanent Platform & Ladd	er	:	Yes
Working Fuel Consumption	:	2.78 MT/hr.				
Pollution Control Device		E.S.P				

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.		RESULTS
1.	Flue Gas Temperature	oC	IS 11255 (Part 1)	33	125.0
2.	Barometric Pressure	mm of Hg.			755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	11.63
4.	Quantity of Gas flow	Nm3/hr.	IS 11255 (Part III)	1	219847.43
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	:	15.30
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003		10.0
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	1	<1.0
8.	Concentration of Particulate	mg/Nm ³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D	2	23.50
	Matter		3685M-98 (reapproved 2005): Sec. 11 (Vol.11.07): 2017		

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

Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 * Ph. 033 25792889

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Branch Office : Siliguri * Haldia * Durgapur * Dhanbad * Gangtok * Port Blair * Debradun * New Delhi

Overseas : UAE * Qatar * Netherlands







FORMAT NO: ENV/FM/38

Name of the		Bravo Sponge I	ron Pvt. Ltd.	Туре о	flne	lustry	1:	Steel & Po	Unit		
Industry				Sampling Date			1	20.02.202			
Address	3	723145	Vil). – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145			Period of Analysis Date of Issue			02.03.2024 - 02.03.2024 04.03.2024		
		Soul (con tot	Deviation from the Sampling Metho		_		Type	of Sample	1	Stack	
Sampling Plan & Procedure	3	A					ENV	/03/March/	TRO	Emission (A)/VII/23-24	
Sample Condition		Sealed Samp	ple ID No. : ENV/03/March/A/VII Report No. :				Live	hill got brusted traced traced			

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to		Fe-Ore Pellet Formation St	ack (No.1)			60.0
Shape of Stack	1	Circular		Height of Stack (mtr.) (from G. L.)	10	50.0
Materials of	:	RCC		Stack I.D. at sampling point (mtr.)	30	3.0
Construction Capacity	1	2500 MT/Day		Height of sampling port (mtr.) (from G.L.)	3	-
Emission Due to	:	Combustion of Producer C	as & PCI Coal	Permanent Platform & Ladd	er	: Yes
Fuel Used	:	Producer Gas & PCI Coal		1 Fermanent Little of the		
Working Fuel - Consumption	1	2.78 MT/hr.			_	
Pollution Control Device	1 2	E.S.P	PRIME LA SUREXI			

B. RESULTS

SL. PARAMETERS	UNIT	METHOD NO.	RESULTS
NO. 1. Flue Gas Temperature 2. Barometric Pressure 3. Velocity of Gas flow 4. Quantity of Gas flow 5. Concentration of SO ₂ 6. Concentration of CO ₂ 7. Concentration of CO 8. Concentration of Parti	mm of Hg. m/s Nm³/hr. mg/Nm³ % (v/v) %(v/v)	IS 11255 (Part 1) IS 11255 (Part 3) IS 11255 (Part III) IS 11255 (Part 2) 1985 RA 2003 IS 13270 1992 RA 2003 IS 13270 1992 RA 2003 IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol.11.07): 2017	115.0 755.0 11.47 222452.35 17.06 9.8 <1.0 26.50

Result relates only to the sample tested. Remarks

Reviewed By:

INDRANI BHATTACHARYA Dy. Technical Manager, Chemical

Authorised Signatory:

Dr. AJOY PAUL Quality Manager

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Overseas

: UAE . Qatar . Netherlands

FORM 4

[See rules 6(5), 13(8), 16(6) and 20 (2)]

Annual Return

under

Hazardous & Other Wastes(Management & Transboundary Movement) Rules, 2016 Transboundary Movement) Rules, 2016

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

Return No: 5137950 **Period:** 2023-2024

DD 41/O CD CM		TID.					
			ı (WB)				
WB0299683010							
252/2S(HW)-36 23/12/2022 31/07/2024	75/2019						
Deepak Kumar Director	Agrawal						
Village- Mahud 723145.	a, P.O-Rukni, P.	S-Para, Dist:Pa	urulia,Pin-				
9233331111							
0343-66255252							
emd.sipl@shaka	ambharigroup.co	o.in					
Generator							
Yes							
Sr.no Product Quantity Unit							
1 SPONGE 246302 Metric Ton IRON							
2 M.S. BILLET 79157 Metric Ton							
3	PELLET	1272850	Metric Ton				
	Vill-Mahuda, P WB0299683010 252/2S(HW)-36 23/12/2022 31/07/2024 Deepak Kumar Director Village- Mahud 723145. 9233331111 0343-66255252 emd.sipl@shaka Generator Yes Sr.no 1 2	Vill-Mahuda, PO-Rukni, PS-Pan WB0299683010 252/2S(HW)-3675/2019 23/12/2022 31/07/2024 Deepak Kumar Agrawal Director Village- Mahuda, P.O-Rukni, P. 723145. 92333331111 0343-66255252 emd.sipl@shakambharigroup.cc Generator Yes Sr.no Product Name 1 SPONGE IRON 2 M.S. BILLET	252/2S(HW)-3675/2019 23/12/2022 31/07/2024 Deepak Kumar Agrawal Director Village- Mahuda, P.O-Rukni, P.S-Para, Dist:Portion of the product				

Part A. To be filled by hazardous waste generators												
Name of Process r. n o	Cate	Waste Stream	Unit	Quantit y in stock at the beginnin g of the year	generate d	Quantit y dispatch ed to disposal facility	y	y	y	Quantit y in storage at the end of the year		

1	Schedule I - 35.Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETPs)	Exha ust Air or Gas clean ing resid ue	35.1	Metric Ton	0.279 Metric Tonnes/Y ear	142.051 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	142.14 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.189999 9999999 9773 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 Oil	5.1	Metric Ton	0.016 Metric Tonnes/Y ear	1.407 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	1.423 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 Cotto n	5.2	Metric Ton	0 Metric Tonnes/Y ear	0.27 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear	0.27 Metric Tonnes/Y ear	0 Metric Tonnes/Y ear

	Part B. To be filled by Treatment, storage and disposal facility operators													
S r n	1	Cate	Waste Stream	Unit	Quantit y in stock at the beginnin g of the year	Total quantity received	Quantit y treated	Quantit y disposed in landfills as such and after treatme nt	Quantit y incinera ted (If applicab le)	Quantit y processe d other than specified above	y in storage at the end of			

	Part C. To be filled by recyclers or co-processors or other users											
S r. n o	Name of Process	Categ	Waste Stream	Unit	Quantity in stock at the beginnin g 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- processe d or used	Quantity re- exported (whereve r applicabl e)	Quantity in storage at the end of the year		
Wh	ether Importing Oth	Not-	Not-Selected									

	Part D. Details of Interstate Movement										
Sr.no	Name of Industry (Within State)	District	Receiving/S ending	Name of Industry (Other State)	State	Type of Waste	Qty.(MTA)	Purpose (Recycling/ Disposal/In cineration)			

1	BRAVO SPONGE IRON PVT.	PURULIA	Sending	Nilay Narayan Ploychem	Jharkhand	Used Oil	1.423 MTA	Recycling
	LIMITED			ĽLP				

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: 14/06/2024

Place: Purulia

DEEPAK KUMAR AGARWAL

Name of the Occupier or Operator of the

disposal facility