SHAKAMBHARI GROUP

BRAVO SPONGE IRON PRIVATE LIMITED

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

Ref.: BSIPL/ES/2020-21

Date: 26th October 2021

The Sr. Environmental Engineer
West Bengal Pollution Control Board
Asansol Regional Office
ADDA Commercial Market (2nd Floor),
Oppo. Asansol Fire Station,
GT Road, Asansol-713301
Dist-Paschim Bardhaman (WB)

Sub: Environment Statement (FY: 2020-2021) of M/s Bravo Sponge Iron Pvt. Limited, Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)-723145

Dear Sir,

With reference to above subject we are submitting herewith the Environment Statement (Form-V) for financial year ending 31st March, 2021 of M/s Bravo Sponge Iron Pvt, Limited, Vill-Mahuda, PO-Rukni, Dist-Purulia (WB) for your kind consideration please.

Kindly acknowledge our submission

Thanking you,

Yours faithfully,

For **Bravo Sponge Iron Pvt. Limited**

26/10/2021

(Authorized Signatory)

Bravo Sponge Iron Pvt. Ltd. RUKNI PURULIA

Encl: As above.

Copy to:
The IGF & Incharge, 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 2020-2021 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. Limited
Vill. – Mahuda, P.O. – Rukni,
P.S. – Para, District – Purulia (WB),
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 – **23rd October 2020**

PART – B

Water and Raw Material Consumption:

i. Water consumption in m^3/d

Process: 88 m^3/d
Cooling: 280 m^3/d
Domestic: 15 m^3/d

Name of Products	Process water consumption (m^3) per unit (MT) of products	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Sponge Iron	0.18 m^3/T	0.22 m^3/T
Billet	0.65 m^3/T	0.51 m^3/T
Electricity	0.39 m^3/MW	0.37 m^3/MW

Bravo Sponge Iron Pvt. Ltd. RUKNI PURULIA

ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of output	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
DRI Division			
Iron Ore	Sponge Iron	1486.69 Kg/T	1242.30 Kg/T
Iron Ore Pellet		203.05 Kg/T	402.21 Kg/T
Coal		860.47 Kg/T	999.57 Kg/T
Dolomite		75.17 Kg/T	57.42 Kg/T
SMS Division			
Pig Iron	MS Billet	154.33 Kg/T	184.16 Kg/T
Sponge Iron		874.29 Kg/T	849.28 Kg/T
Scrap		149.83 Kg/T	183.37 Kg/T
Silico Manganese		15.71 Kg/T	14.66 Kg/T
CPP Division			
Coal Fines	Electricity	6.99 Kg/KW	84.76 Kg/KW
Dolochar		775.83 Kg/KW	494.78 Kg/KW

* ***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)

(a) Water

Parameters	Unit	Quantity of Pollutants discharged (mass/day)	Concentration (mass/volume)	Percentage of variation from prescribed standards with reasons
Leakages, spillages and overflow water goes to ETP through Plant Drain Network and after treatment reused for Green Belt Development and dust suppression purpose.				

(b) Ambient Air Quality

Pollutants	Quantity of Pollutants discharged (mass/day)	Concentration of Pollutants discharged ($\mu g/m^3$)			Percentage of variation from prescribed standards with reasons
		Near Main Gate (Western Side)	Mahuda Village (Southern Side)	Near Railway Siding (Northern Side)	Near Main Admin building (Eastern Side)	
$PM_{2.5}$	Sampling time 24 hours	44.76	40.33	36.32	50.67	Within the range
PM_{10}		87.31	72.14	74.21	83.34	
SO_2		8.10	5.97	5.33	6.40	
NO_X		28.02	24.01	22.63	28.48	

Ambient Air Quality Monitoring reports attached as Annexure-1

Bravo Sponge Iron Pvt. Ltd. RUKNI PURULIA

(c) Stack Monitoring Data

Pollutants	Location	Concentration of Pollutants discharged (mg/Nm^3)	Percentage of variation from prescribed standards with reasons
PM	DRI Kiln (1&2) Stack-1	36.17	Within the range
	DRI Kiln (3&4) Stack-2	43.13	
	Induction Furnace	32.51	
	AFBC Boiler	36.50	

Stack monitoring reports attached as Annexue-2

PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
From Process (Operation & Maintenance	NIL	0.55 MT Annual Return submitted Form-4 copy attached (Annex-3)
From Pollution Control Facilities	NIL	NIL

Note: Used oil and waste cotton from cleaning and maintenance activities are collected and stored. Periodically handed over to Auth0rized recycler and common HWM facility.

PART – E

Solid Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
From Process	10117	10367
From Pollution Control Facilities	73874	64876
Quantity recycled or reutilized within the unit	38761	40160

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	36049	Used in CPP for power generation
Fly Ash	46831	Provide to Brick Manufactures
Bottom Ash/Bed Material	11117	Used for land filling in our facility
BF flue Dust from DRI	6716	Provided to Brick Manufactures after metal recovery
BF flue dust from SMS	212	Used for land filling
IF Slag	10367	Used for Road Construction and Land filling
Metal from IF Slag	1152	Reused in SMS
MS Scrap & Mill Skull	2960	Reused in SMS

PART – G

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

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

Description	Expenditure for Pollution Control measures on Conservation of Natural Resources (Rs. in lakhs)
Total Cost towards Air Pollution Control Measures, Environmental Monitoring, EHS Management & training, Waste Management System, EHS, Green Belt Development (Plantation & Plant Maintenance), CSR, etc.	45.00

PART – H

Additional measures/investment proposal for environmental protection including abatement of pollution.

Already included in Part G.

We have done the massive plantation for green belt development with indigenous species in consultation with DFO.

PART – I

MISCELLANEOUS

Any other particulars in respect of environmental protection and abatement of pollution.

(1) We are complying all the directions given by the WBPCB, and getting regular Water & Air consents.

(2) Periodic Environmental Monitoring being done by NABL accredited laboratory to ascertain the efficiency of OCEMS installed and connected to CPCB server.

Enclosure List:

1) Copies of analysis reports (Annexur-1&2)
2) Copy of form-4 Annual Return as annexure-3

Bravo Sponge Iron Pvt. Ltd. RUKNI PURULIA

Annexure - 1

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.		Type of Industry	:	Steel & Power Unit	
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145		Sampling Date	:	03.03.2021 – 04.03.2021	
				Period of Analysis	:	06.03.2021 – 06.03.2021	
				Date of Issue	:	08.03.2021	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	: Ambient Air
Sample ID No.	:	ENV/06/March/A/V	Report No.	:	ENV/06/March/TR(A)/V/20-21		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Main Gate (Western Side)
2.	Duration of Sampling	:	24 hrs. (10:00 a.m. – 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	26.0
2.	Average Relative Humidity (%)	:	50.0
3.	Barometric Pressure (mm of Hg)	:	752.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	µg/m³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	44.76
2.	Concentration of PM_{10}	µg/m³	IS 5182 (PART 23) : 2006	87.31
3.	Concentration of SO_2	µg/m³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.10
4.	Concentration of NO_2	µg/m³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	28.02
5.	Concentration of CO	mg/m³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.17
6.	Concentration of Pb	µg/m³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C_6H_6)	µg/m³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O_3)	µg/m³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH_3)	µg/m³	NIOSH Manual of Analytical Method, 4th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m³	EPA IO 3.2, 1999, APHA 23rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	:	03.03.2021 – 04.03.2021
			Period of Analysis	:	06.03.2021 – 06.03.2021
			Date of Issue	:	08.03.2021

Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Ambient Air
Sample ID No.	:	ENV/06/March/A/VI	Report No.	:	ENV/06/March/TR(A)/VI/20-21			

A] GENERAL INFORMATION

1.	Location of Sampling	:	Mohuda Village (0.5 K.M. from Plant) (Southern Side)
2.	Duration of Sampling	:	24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	26.0
2.	Average Relative Humidity (%)	:	50.0
3.	Barometric Pressure (mm of Hg)	:	752.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	$\mu g/m^3$	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	40.33
2.	Concentration of PM_{10}	$\mu g/m^3$	IS 5182 (PART 23) : 2006	72.14
3.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.97
4.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	24.01

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

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

TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.		Type of Industry	:	Steel & Power Unit	
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145		Sampling Date	:	03.03.2021 – 04.03.2021	
				Period of Analysis	:	06.03.2021 – 06.03.2021	
				Date of Issue	:	08.03.2021	
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	: Ambient Air
Sample ID No.	:	ENV/06/March/A/VII	Report No.	:	ENV/06/March/TR(A)/VII/20-21		

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Railway Siding Area (Northern Side)
2.	Duration of Sampling	:	24 hrs. (11:00 a.m. – 11:00 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (^{0}C)	:	26.0
2.	Average Relative Humidity (%)	:	50.0
3.	Barometric Pressure (mm of Hg)	:	752.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	$\mu g/m^3$	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	36.32
2.	Concentration of PM_{10}	$\mu g/m^3$	IS 5182 (PART 23) : 2006	74.21
3.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.33
4.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	22.63

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

TEST REPORT

FORMATNO : ENV/FM/37

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	:	03.03.2021 – 04.03.2021
			Period of Analysis	:	06.03.2021 – 06.03.2021
			Date of Issue	:	08.03.2021

Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Ambient Air

Sample ID No.	:	ENV/06/March/A/VIII	Report No.	:	ENV/06/March/TR(A)/VIII/20-21

A] GENERAL INFORMATION

1.	Location of Sampling	:	Near Main Administrative Building (Eastern Side)
2.	Duration of Sampling	:	24 hrs. (11:30 a.m. –11:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	26.0
2.	Average Relative Humidity (%)	:	50.0
3.	Barometric Pressure (mm of Hg)	:	752.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear sky

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $PM_{2.5}$	$\mu g/m^3$	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	50.67
2.	Concentration of PM_{10}	$\mu g/m^3$	IS 5182 (PART 23) : 2006	83.34
3.	Concentration of SO_2	$\mu g/m^3$	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.40
4.	Concentration of NO_2	$\mu g/m^3$	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	28.48

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

Annexure - 2

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	:	03.03.2021
			Period of Analysis	:	06.03.2021 – 06.03.2021
			Date of Issue	:	08.03.2021

Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Source Emission

Sample ID No.	:	ENV/06/March/A/I	Report No.	:	ENV/06/March/TR(A)/I/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Rotary Kiln (No. 1 & 2) 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.)	:	1.90
Capacity	:	Kiln No.1 – 100 TPD & Kiln No.2 – 95 TPD	Height of sampling port (mtr.) (from G.L.)	:	14.0
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore			
Fuel Used	:	Coal	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Rated – 5.63 MT/hr. (each kiln) Working – 5.12 MT/hr. (each 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	^oC	IS 11255 (Part 1)	:	138.0
2.	Barometric Pressure	mm of Hg.	--	:	752.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	8.06
4.	Quantity of Gas flow	$Nm^3/hr.$	IS 11255 (Part III)	:	57752.95
5.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) 1985 RA 2003	:	608.78
6.	Concentration of CO_2	% (v/v)	IS 13270 1992 RA 2003	:	10.4
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate Matter (at 10.4% CO_2)	mg/Nm^3	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	:	31.35
	b) Concentration of Particulate Matter (at 12% CO_2)			:	36.17

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018

TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.	Type of Industry	:	Steel & Power Unit
Address	:	Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	:	03.03.2021
			Period of Analysis	:	06.03.2021 – 06.03.2021
			Date of Issue	:	08.03.2021

Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Source Emission

Sample ID No.	:	ENV/06/March/A/II	Report No.	:	ENV/06/March/TR(A)/II/20-21

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.)	:	30.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.80
Capacity	:	100 TPD (each)	Height of sampling port (mtr.) (from G.L.)	:	15.0
Emission Due to	:	Oxidation of Coal & Reduction of Fe-Ore			
Fuel Used	:	Coal	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Rated – 5.63 MT/hr. (each kiln) Working – 5.12 MT/hr. (each 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	^{o}C	IS 11255 (Part 1)	:	166.0
2.	Barometric Pressure	mm of Hg.	--	:	752.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	:	9.12
4.	Quantity of Gas flow	$Nm^3/hr.$	IS 11255 (Part III)	:	54823.94
5.	Concentration of SO_2	mg/Nm^3	IS 11255 (Part 2) 1985 RA 2003	:	640.98
6.	Concentration of CO_2	% (v/v)	IS 13270 1992 RA 2003	:	10.8
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	:	<1.0
8.	a) Concentration of Particulate Matter (at 10.8% CO_2)	mg/Nm^3	IS 11255 (Part – 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	:	38.82
	b) Concentration of Particulate Matter (at 12% CO_2)			:	43.13

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. S. B. Chowdhury, Technical Manager)

Annexure - 3

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 : *850788* **Period :** *2020-2021*

1. Name of facility/Industry **Industry Address of facility/Industry**	*BRAVO SPONGE IRON PVT. LTD.* *Vill-Mahuda, PO-Rukni, PS-Para, Dist-Purulia (WB)-723145*
2. UID	*WB0291697797*
3.Authorisation No **Date of issue:** **Date of Expiry**	*Applied For Application No. hw0000000002946.* *14/06/2019* *29/07/2021*
4. (i) Name of the authorised person & Designation	*R. K. MISHRA* *DGM*
(ii) Correspondence Address	*BRAVO SPONGE IRON PVT. LTD.* *Vill-Mahuda, PO-Rukni, PS-Para, Dist-Purulia (WB)-723145*
(iii) Mobile No	*8695621900*
(iv) Land Line No (with area code)	-
(iv) Fax number (with area code)	-
(vi) e-mail	*rk.mishra@shakambharigroup.in*
(vii) Type of HW Handler	*Generator*
(viii) If involved in Interstate Movement of HW	*No*

5. Production during the year (product wise), wherever applicable

Sr.no	Product Name	Quantity	Unit
1	*Sponge Iron*	*134372.50*	*Metric Ton*
2	*MS Billet*	*68754.17*	*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	0.25 Metric Tonnes/Year	0.55 Metric Tonnes/Year	0 Metric Tonnes/Year	0.8 Metric Tonnes/Year	0 Metric Tonnes/Year	0 Metric Tonnes/Year	0 Metric Tonnes/Year
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/Year	0.165 Metric Tonnes/Year	0 Metric Tonnes/Year	0 Metric Tonnes/Year	0 Metric Tonnes/Year	0.165 Metric Tonnes/Year	0 Metric Tonnes/Year

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

Sr. no	Name of Process	Category	Waste Stream	Unit	Quantity in stock at the beginning of the year	Total quantity received	Quantity treated	Quantity disposed in landfills as such and after treatment	Quantity incinerated (If applicable)	Quantity processed other than specified above	Quantity in storage at the end of the year

Part C. To be filled by recyclers or co-processors or other users

Sr. no	Name of Process	Category	Waste Stream	Unit	Quantity in stock at the beginning of the year	Quantity of waste received during the year from Domestic sources	Quantity of waste received during the year Imported	Quantity recycled or co-processed or used	Quantity re-exported (wherever applicable)	Quantity in storage at the end of the year
Whether Importing Other Wastes					*Not-Selected*					

Part D. Details of Interstate Movement

Sr.no	Name of Industry (Within State)	District	Receiving/Sending	Name of Industry (Other State)	State	Type of Waste	Qty.(MTA)	Purpose (Recycling/ Disposal/Incineration)

Part D. Details of Import of Other Waste Import & Recycling

Sr.no	Name of the Importer)	Imported from (country name)	Type of Other waste	Quantity Imported (MTA)	Quantity Recycled (MTA)

Date : *02/08/2021*

Place : *Purulia*

DEEPAK KUMAR AGARWAL

Name of the Occupier or Operator of the disposal facility