

Ref: BSIPL/SMC/MoEF&CC/APR-2020 to SEPT-2020

Date: 01/12/2020

To,
The Dy. Director General of Forests (Central)
Eastern Regional Office,
Ministry of Environment Forests & Climate Change,
A/3, Chandrashekharpur, Bhubaneswar – 751023 (Odisha)

SUB: Six Monthly (April-2020 to Sept-2020) Compliance to Environmental Clearance conditions vide MoEF&CC F. No. J-11011/758/2009-IA.II (I) dated 18th April, 2017 by M/s Bravo Sponge Iron Pvt. Limited, Vill-Mahuda, PO-Rukni. Dist- Purulia (WB)

Dear Sir,

With reference to above, we are submitting herewith the six monthly compliance report (Period April, 2020 to September, 2020) of M/s Bravo Sponge Iron Pvt. Limited, Vill-Mahuda, PO-Rukni, Dist- Purulia (WB) as per the directives of Ministry of Environment Forest and Climate Change (MoEF&CC), Government of India. Point wise compliance status report along with latest environmental monitoring data is enclosed for your kind perusal.

Hard copy of the report has not been sent following your direction vide File No. 106-12/EPE Dated 11.05.2020. Hope you will find the same in order.

Kindly acknowledge our submission.

Thanking You.

Yours faithfully,

For **Bravo Sponge Iron Pvt. Limited**


Authorized Signatory

Encl: as above



Copy to:

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 Burdwan (WB).

SIX MONTHLY COMPLIANCE REPORT

April, 2020 - September, 2020



Prepared by:

Bravo Sponge Iron Pvt. Limited

Village- Mahuda, P.O-Rukni, Dist – Purulia, West Bengal

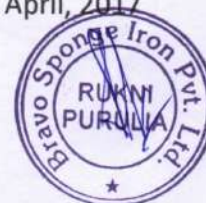


SIX MONTHLY COMPLIANCE REPORT

Name of the Project	: M/S BRAVO SPONGE IRON PVT. LIMITED Vill-Mahuda, PO-Rukni, PS-Para, Dist- Purulia (WB)
Environmental Clearance Letter Ref.	: F.No.: J-11011/758/2009-IA.II(I), Dated: 18th April, 2017
Period of Compliance Report	: April 2020 to September 2020

A- SPECIFIC CONDITIONS:

Sl. No.	CONDITIONS	COMPLIANCE STATUS
1.	The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.	We have installed 24x7 OCEMS connected to CPCB portal to monitor the air emissions. Latest stack monitoring reports are attached as Annexure 1 .
2.	In-plant control measures like bag filters, de-dusting and dust suppression system shall be provided to control fugitive emissions from all the vulnerable sources. Dust extraction and suppression system shall be provided at all the transfer points, coal handling plant etc. Water sprinkling system shall be provided to control secondary fugitive dust emissions generated during screening, loading, unloading handling and storage of raw materials etc.	We have already installed de-dusting systems like bag filters and ESPs for an effective control of dust emissions. Dust extraction system has been provided at the strategic points attached with bag filter units for cooler discharge, intermediate bin and product house and separation house. Fixed type water sprinklers for dust suppression at raw material handling system along the conveyor, finished product house area, cooler discharge, along with Kiln axis and all other strategic locations. BSIPL have deployed movable water tankers for dust suppression on the road and minimizing fugitive emissions. Latest fugitive emissions monitoring report is attached as Annexure-2
3	The COD level in the effluent should be maintained at the prescribed standard and the STP effluent is to be recycled within the premises.	Recycle and Reuse practice has been adapted by us and no effluent being discharged outside factory premises. For domestic effluent septic tank followed by soak pit facility has been provided. Effluent analysis report is enclosed as Annexure-3



4	No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.	We are adapting recycle and reuse practice and no effluent being discharged outside the factory premises.
5	Continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control device viz. Electrostatic Precipitator (ESP), bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm ³ and installing energy efficient technology.	<p>Online Continuous Emission Monitoring System (OCEMS) have been installed at Stacks of DRI and CPP.</p> <p>Air pollution control devices viz. ESPs and bag filters along with dust extraction and suppression system have been installed and efficiently operated to control emission level well within the norms.</p> <p>Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels.</p> <p>Latest stack monitoring report in enclosed as Annexure-1</p>
6	Efforts shall further be made to use maximum water from the rain water harvesting sources. Use of air cooled condensers shall be explored and closed circuit cooling system shall be provided to reduce water consumption and water requirement shall be modified accordingly. All the effluent should be treated and used for ash handling, dust suppression and green belt development. ETP sludge should be disposed off scientifically.	All possible attempts are made to ensure optimal use of water within the factory premises. There is rain water harvesting pond to harvest the rain water and reduce the water consumption. Effluent generated being used for ash handling, dust suppression and used for green belt development after treatment in ETP. Sludge generated being used as manure for green belt development.
7	All internal roads shall be black topped. The roads shall be regularly cleaned with mechanical sweepers. A 3-tier avenue plantation using native species shall be developed along the roads. Facilities for parking of trucks carrying raw coal from the linked coalmines shall be created within the Unit.	<p>The concreting of all internal roads with work area platform where heavy vehicle movement exercised has been completed. Some pictures of RCC road are attached as Annexure-4</p> <p>Plantation have been completed using indigenous species i. e. Mehagani, Segun, Pakur, Radhachura, Neem, Bakul, Shishu, Jarul, Arjuna, Sonajuri, Kadam, Pepal etc. along the plant periphery as well as inside the plant and we have achieved the desired target of plantation. Regular maintenance being done for sustainability of the plants. Some pictures are attached as Annexure-5</p>

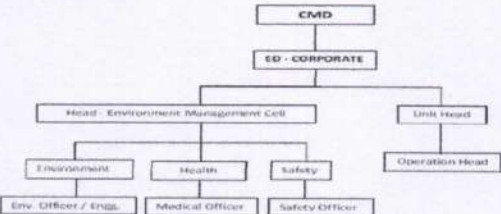
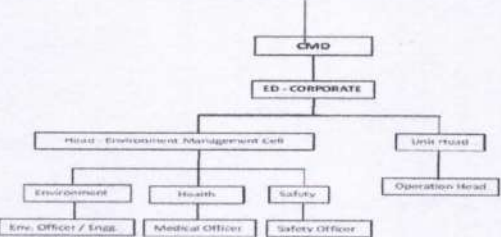


8	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826 (E) dated 16th November 2009 shall be followed.	It is being followed. Latest Ambient Air Quality Monitoring report is attached as Annexure-6
9	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R.414 (E) dated 30th May, 2008 and regularly monitored. Guidelines /Code of Practice issued by the CPCB shall be followed.	Suitable control measures have been undertaken to keep Gaseous emission levels including secondary fugitive emissions within the latest permissible limits. Latest work zone (Fugitive Emission) monitoring report is enclosed as Annexure-2
10	Regular monitoring of influent and effluent, surface, sub-surface and ground water shall be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the Environment (Protection) Act, 1986 whichever are more stringent.	It is being complied. Latest Surface Water monitoring report is enclosed as Annexure-7
11	Proper handling, storage, utilization and disposal of the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Ministry's Regional Office, SPCB or CPCB.	Proper handling, storage, utilization and disposal of solid waste being done. Analysis of toxic metal content in the solid waste being periodically carried out by approved agency. The monitoring report is enclosed as Annexure-8
12	A time bound action plan shall be submitted to reduce solid waste generated due to the project related activity, its proper utilization and disposal.	Dolochar generated from sponge iron plant is being utilized in AFBC boiler of the captive power plant. Fly ash is being utilized in fly ash brick manufacturing. Induction Furnace slag and Bottom Ash are being used for land filling and road construction work.
13	Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2009. All the fly ash shall be provided to cement and brick	All the fly ash generated within the plant is provided to brick manufacturers for further utilization. Accordingly company has made the agreement with various vendors for the same. Copies of the agreements are enclosed



	manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office.	as Annexure-9
14	Risk and Disaster Management Plan shall be prepared and a copy submitted to the Ministry's Regional Office, SPCB and CPCB within 3 months of issue of environment clearance letter.	Complied.
15	10-15 m wide green belt should be developed all along the boundary of the plant and in all 33% of the area should be developed green by planting native and broad leaved species in consultation with local DFO and local communities as per the CPCB guidelines. The complete plantation should be completed in 3 years.	We have achieved the target of 33% green belt development for extensive greenery in consultation with local DFO involving indigenous and broad leaved species. Some plantation photos are enclosed as Annexure-5 Post plantation work for nourishment of the plants being done on regular basis.
16	All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	It is being complied and we are in the process of regular compliance of commitments made during public hearing i.e. up gradation of educational facilities, organizing health checkup camps for nearby villagers, abatement of pollution, providing necessary PPEs to the workers for safety etc. BSIPL have dedicated HR department to take care of CSR activities.
17	An amount equal to Rs. 400.87 Lakhs, shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan as indicated by the project proponent shall be implemented. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	The amount earmarked is exclusively used for implementation of Enterprise Social Commitment. Our expenditures incurred towards facilitating study materials to the nearby school students, infrastructure development in the schools, plants distribution for encouragement of social forestry, drinking water supply and social causes etc.
18	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to being into focus any	It is compiled and already submitted. BSIPL have implemented standard operating procedure to look into any infringement / deviation/violation of environmental or forest norms/ conditions. BSIPL have also the Hierarchical system/



	<p>infringement/deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non-compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.</p>	<p>Administrative order to deal with environmental issues and compliance of EC conditions.</p>  <p>BSIPL have in placed reporting system for non-compliance/violation of environmental norms.</p> <p>Board of Directors</p> 
19	<p>The project proponent shall provide for solar light system for all common areas, street lights, villages, parking around project area and maintain the same regularly.</p>	<p>Complied. We have already installed the solar lighting system in strategic areas as directed.</p>
20	<p>The project proponent shall provide for LED lights in their offices and residential areas.</p>	<p>Complied.</p>
21	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>It is being complied.</p>
<p>B-GENERAL CONDITIONS:</p>		
1	<p>The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.</p>	<p>Being adhered as per the stipulation made by WBPCB and State Government. Consent to Operate obtained from WBPCB is attached as Annexure-10</p>



2	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF& CC).	It shall be complied with.
3	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM ₁₀ , PM _{2.5} , SO ₂ and NO _x are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	Ambient Air Quality Monitoring being carried on as per direction in consideration of maximum ground level concentration of SPM, SO ₂ , and NO _x . Latest Ambient Air Quality monitoring reports for PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and stack monitoring report is enclosed in Annexure-6 & Annexure-1
4	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December 1993 or as amended from time to time. The treated wastewater shall be utilized for plantation purpose.	Being complied. Industrial Effluent is being treated in ETP and utilized for green belt development. Latest analysis report of treated effluent is enclosed as Annexure-3
5	The overall noise levels in and around the plant area shall be kept well within the standards (85 dB(A)) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noise control measures has already been implemented to keep the noise level well within the 85 dB(A) and ambient noise level below 75 dB(A) (during day time) and 70 dB(A) (during night time). Work Zone and Ambient Noise Monitoring report is enclosed as Annexure-11A & 11B
6	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Occupational health surveillance program has been taken as a regular exercise for the employees and records are maintained. Health cards of some employees are enclosed as Annexure-12
7	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water	Rain water harvesting structure has been developed within the plant to harvest the rain water.



	table.	
8	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Environmental protection measures have been implemented for effective compliance recommended in EIA/EMP reports. We have initiated to comply with socio-economic development activities in surrounding villages. As a part of Enterprise Social Commitment we are providing jobs to the local people and facilitating study materials to the school students (school bags and books, pencil box, water bottle etc.) of nearby villages, and contributing towards social causes etc.
9	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change (MoEF& CC) as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional Office of the Ministry at Bhubaneshwar. The funds so provided shall not be diverted for any other purpose	Requisite funds have been earmarked towards capital cost and recurring cost/annum for environmental pollution control measures to implement the conditions stipulated by MoEF& CC. Accordingly necessary facilities like ESPs, attached with AFBC and WHRB followed by silos, bag filters along with dust extraction system, Water sprinkling system for fugitive dust suppression, water tankers for dust suppression on roads, green belt development and water recycling system etc. have been installed for abatement of the environmental pollution. Suitable manpower have been engaged for an efficient operation, monitoring and maintenance of the devices installed.
10	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	Complied.
11	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of	It is being complied. Compliance status report being periodically uploaded on company's website.



	monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF& CC at Bhubaneshwar. The respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	http://shakambhariispat.com/environmental-compliance
12	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF& CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB/SPCB shall monitor the stipulated conditions.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data being submitted to MoEF& CC and Pollution Control Board. It is submitted in soft copy only as per direction of Hon'ble MoEFCC F.NO. 106-12/EPE dtd. 11.05.2020
13	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&CC at Bhubaneshwar by e-mail.	It is being complied. The environment statement for Financial Year 2019-20 have been submitted to WBPCB with copy to Regional Office of the MOEF&CC and the report has been uploaded on the company's website as per direction. Copy of the e-mail is attached as Annexure-13 .
14	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry of	Complied.



	Environment, Forests and Climate Change (MoEF& CC) at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office at Bhubaneswar.	
15	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	Financial closure as well as date of start of land development work has already been informed.



Annexure-1



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Recognised by MoEF&CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017)
 Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



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	: 27.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/I	Report No.	: ENV/41/Sep./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
Materials of Construction	: M.S.
Capacity	: Kiln No.1 – 100 TPD & Kiln No.2 – 95 TPD
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore
Fuel Used	: Coal
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	°C	IS 11255 (Part 1)	: 149.5
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 8.60
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 58309.10
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 777.42
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 10.6
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
8.	a) Concentration of Particulate Matter (at 10.6% 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	: 25.72
	b) Concentration of Particulate Matter (at 12% CO ₂)			: 29.11

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/II	Report No.	: ENV/41/Sep./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
Materials of Construction	: M.S.
Capacity	: 100 TPD (each)
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore
Fuel Used	: Coal
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	°C	IS 11255 (Part 1)	: 165.2
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 9.38
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 55058.82
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 621.08
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	: 23.87
	b) Concentration of Particulate Matter (at 12% CO ₂)			: 26.52

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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TEST REPORT

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		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/IV	Report No.	: ENV/41/Sep./TR(A)/IV/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hood Over Induction Furnace (2 x 15 MT/Batch) attached to common stack
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 2 x 15 Ton/Batch
Emission Due to	: Melting of Sponge Iron, Pig Iron & Scraps
Fuel Used	: Electrically Operated
Working Fuel Consumption	: Nil
Pollution Control Device	: Bag Filter

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	51.2
2.	Barometric Pressure	mm of Hg.	--	755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	10.7
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	11660.45
5.	Concentration of Particulate Matter	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	35.51

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



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Sample ID No.	: ENV/41/Sep./A/III	Report No.	: ENV/41/Sep./TR(A)/III/20-21

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 20 TPH (Running – 19 TPH)
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore
Fuel Used	: Coal & Dolochar
Working Fuel Consumption	: Coal – 110 TPD & Dolochar – 130 TPD
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)	: 121.0
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 7.14
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 71522.99
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 291.87
6.	Concentration of NO _x	mg/Nm ³	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec 11 (Vol. 11.07) : 2011	: 162.70
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 12.2
8.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
9.	a) Concentration of Particulate Matter (at 12.2% 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	: 29.12
	b) Concentration of Particulate Matter (at 12% CO ₂)			: 28.64

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

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Annexure-2



ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/57

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	: 27.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/IX	Report No.	: ENV/41/Sep./TR(A)/IX/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Stock Yard (Raw Material Handling Section)
2. Duration of Sampling : 08 hrs. (11:00 a.m. – 07:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	384.64

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



ENVIROCHECK

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Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



TEST REPORT

FORMAT NO : ENV/FM/57

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	: 27.09.2020		
		Period of Analysis	: 30.09.2020 – 01.10.2020		
		Date of Issue	: 03.10.2020		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone
Sample ID No.	: ENV/41/Sep./A/IX	Report No.	: ENV/41/Sep./TR(A)/IX/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Raw Material Stock Yard (Raw Material Handling Section)
2. Duration of Sampling : 08 hrs. (11:00 a.m. – 07:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.91
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	24.93

Remarks :

Reviewed By :

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Approved By :

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TEST REPORT

FORMAT NO : ENV/FM/57

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	: 27.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/X	Report No.	: ENV/41/Sep./TR(A)/X/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area (CPP Division)
2. Duration of Sampling : 08 hrs. (11:30 a.m. – 07:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	424.04

Remarks :

Reviewed By :

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Approved By :

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TEST REPORT

FORMAT NO : ENV/FM/57

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	: 27.09.2020		
		Period of Analysis	: 30.09.2020 – 01.10.2020		
		Date of Issue	: 03.10.2020		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone
Sample ID No.	: ENV/41/Sep./A/X	Report No.	: ENV/41/Sep./TR(A)/X/20-21		

A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area (CPP Division)
2. Duration of Sampling : 08 hrs. (11:30 a.m. – 07:30 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 34.0
2. Average Relative Humidity (%) : 68.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.17
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	28.46

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
 Accredited by NABL (ISO/IEC 17025:2017)
 Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



TEST REPORT

FORMAT NO : ENV/FM/57

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	: 27.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/XI	Report No.	: ENV/41/Sep./TR(A)/XI/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Inbetween DRI – 1 & 2 and DRI – 3 & 4 (DRI Section)
2. Duration of Sampling : 08 hrs. (12:00 a.m. – 08:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	419.71

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

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	:	27.09.2020			
			Period of Analysis	:	30.09.2020 – 01.10.2020			
			Date of Issue	:	03.10.2020			
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Work Zone
Sample ID No.	:	ENV/41/Sep./A/XI	Report No.	:	ENV/41/Sep./TR(A)/XI/20-21			

A] GENERAL INFORMATION

1. Location of Sampling : Inbetween DRI – 1 & 2 and DRI – 3 & 4 (DRI Section)
2. Duration of Sampling : 08 hrs. (12:00 a.m. – 08:00 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 35.0
2. Average Relative Humidity (%) : 69.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.54
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	23.76

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

Annexure-3



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill. – Mahuda, P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	: 27.09.2020
		Period of Analysis	: 30.09.2020 – 05.10.2020
		Date of Issue	: 07.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Outlet	Sample ID No.	: ENV/19/Sep./W
		Report No.	: ENV/19/Sep./TR(W)/20-21

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH value	4500H*B APHA 23 rd Edition, 2017	-	6.90
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	25.0
3.	Oil & Grease	5520 Oil B/D APHA 23 rd Edition, 2017	mg/l	3.5
4.	Chemical Oxygen Demand	5200 COD B/C/D APHA 23 rd Edition, 2017	mg/l	75.2
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 BOD B APHA 23 rd Edition, 2017	mg/l	12.0

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

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Annexure-4

RCC ROAD AT BRAVO SPONGE IRON PVT. LIMITED





Annexure-5

PLANTATION WITH INDIGINIOUS SPECIES



Annexure-6



ENVIROCHECK

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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	: 27.09.2020 – 28.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/41/Sep./A/V	Report No.	: ENV/41/Sep./TR(A)/V/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate (Western Side)
2. Duration of Sampling : 24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	41.21
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	84.26
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.54
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	25.01
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.16
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

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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	: 27.09.2020 – 28.09.2020		
		Period of Analysis	: 30.09.2020 – 01.10.2020		
		Date of Issue	: 03.10.2020		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/41/Sep./A/VI	Report No.	: ENV/41/Sep./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. (09:00 a.m. – 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	39.58
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	71.83
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	5.23
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	22.97

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

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Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



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	: 27.09.2020 – 28.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/VII	Report No.	: ENV/41/Sep./TR(A)/VII/20-21

A] GENERAL INFORMATION

1. Location of Sampling : Near Railway Siding Area (Northern Side)
2. Duration of Sampling : 24 hrs. (10:40 a.m. – 10:40 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	38.36
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	71.26
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	4.82
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	20.46

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

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ENVIROCHECK

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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	: 27.09.2020 – 28.09.2020
		Period of Analysis	: 30.09.2020 – 01.10.2020
		Date of Issue	: 03.10.2020
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample ID No.	: ENV/41/Sep./A/VIII	Report No.	: ENV/41/Sep./TR(A)/VIII/20-21

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	51.27
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	86.47
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	6.70
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	26.82

Remarks :

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(Dr. Ajoy Paul, Quality Manager)

Annexure-7



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO14001:2015 & OHSAS 18001:2007



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 27.09.2020		
		Period of Analysis	: 30.09.2020 - 05.10.2020		
		Date of Issue	: 07.10.2020		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Surface Water
Location	: Pond at Mahuda Village	Sample ID No.	: ENV/119A/Sep./W/M	Report No.	: ENV/119/Sep./TR(W)/M/20-21

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	APHA 23 rd Ed., 4500 H*B : 2017	-	6.80
2.	Total Suspended Solids	APHA 23 rd Ed., 2540 D : 2017	mg/l	25.0
3.	Total Dissolved Solids	IS 3025 (Part 16) : 1984 : 2014	mg/l	1250.0
4.	Dissolved Oxygen	APHA 23 rd Ed., 4500 - OC : 2017	mg/l	4.80
5.	COD	APHA 23 rd Ed., 5220 B/C/D : 2017	mg/l	80.0
6.	BOD [3 Day's at 27°C]	APHA 23 rd Ed., 5210 B : 2017	mg/l	<2.0
7.	Oil & Grease	APHA 23 rd Ed., 5520 B/D/ : 2017	mg/l	<1.0
8.	Residual Chlorine	APHA 23 rd Ed., Cl-B : 2017	mg/l	<0.04
9.	Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg/l	110.0
10.	Iron	APHA 23 rd Ed., 3111 B : 2017	mg/l	0.92
11.	Arsenic	APHA 23 rd Ed., 3114 B : 2017	mg/l	<0.01
12.	Lead	APHA 23 rd Ed., 3111 B : 2017	mg/l	<0.005
13.	Mercury	APHA 23 rd Ed., 3112 B : 2017	mg/l	<0.001
14.	Copper	APHA 23 rd Ed., 3111 B : 2017	mg/l	<0.04
15.	Dissolve Phosphate	APHA 23 rd Ed., 4500-P D/F : 2017	mg/l	3.50
16.	Zinc	APHA 23 rd Ed., 3111 B : 2017	mg/l	0.62
17.	Total Chromium	APHA 23 rd Ed., 3111 B : 2017	mg/l	<0.02

Reviewed By :

(Durbadal Chakraborty, Dy. Quality Manager)

Approved By :

(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
E-mail : info@envirocheck.org /envirocheck50@gmail.com ■ Website : www.envirocheck.org
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
Overseas : UAE ■ Qatar ■ Netherlands

Annexure-8



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



TCLP REPORT

1.	Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.
2.	Address	: Vill. – Mahuda, P.O. – Rukni, P.S. – Para, Purulia – 723145
3.	Report No.	: Env/358/S/M(i)/20-21
4.	Date of sampling	: 27.09.2020
5.	Reporting Date	: 03.10.2020
6.	Type of sample	: E.SP Bed Ash
7.	Location	: Ash Dumping Yard

Sl. No.	PARAMETERS	METHOD	UNIT	RESULTS
1.	Iron (Fe)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	7.20
2.	Zinc (Zn)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	3.80
3.	Copper (Cu)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.6 : 1998	mg./l	1.50
4.	Nickel (Ni)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	1.25
5.	Lead (Pb)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	1.12
6.	Cadmium (Cd)	EPA 1311 : 1992 EPA 3050 B, 1996/IS 3050 (Part 46)	mg./l	<0.002

Authorised Signatory :

DR. AJAY PAUL
Scientist



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



TCLP REPORT

1.	Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.
2.	Address	: Vill. – Mahuda, P.O. – Rukni, P.S. – Para, Purulia – 723145
3.	Report No.	: Env/358/S/M(ii)/20-21
4.	Date of sampling	: 27.09.2020
5.	Reporting Date	: 03.10.2020
6.	Type of sample	: Slag
7.	Location	: SMS Slag

<u>Sl. No.</u>	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	<u>RESULTS</u>
1.	Iron (Fe)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	9.10
2.	Zinc (Zn)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	3.80
3.	Copper (Cu)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.6 : 1998	mg./l	1.25
4.	Nickel (Ni)	EPA 1311 : 1992 APHA 23 rd Ed., 3111 B : 2017	mg./l	1.20
5.	Lead (Pb)	EPA 1311 : 1992 EPA 3050 B, 1996/EPA 200.9 : 1998	mg./l	0.80
6.	Cadmium (Cd)	EPA 1311 : 1992 EPA 3050 B, 1996/IS 3050 (Part 46)	mg./l	<0.002

Authorised Signatory :

DR. AJOY PAUL
Scientist

Annexure-9



Ref. No...01/16-17/P2RAVO

Date : 01.04.16.....

AGREEMENT

This agreement hereafter referred to as ("the Agreement") made on this the first day of April 2016 by M/S. Bravo Sponge Iron Pvt. Ltd. a company incorporated under the companies Act, 1956 and having its registered office at Mahuda, P.O.-Rukni, P.S.-Para, Dt.-Purulia hereafter referred to as BSIPL (with expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the ONE part

And

M/S. Drishti Fire Bricks, a partnership firm and having its factory at Inanpur, P.O.- Digha, P.S.-Neturia, Purulia-723121 (with expression shall unless excluded by or repugnant to the subject or context be deemed to mean and include its successor or successors and permitted assigns) of the OTHER Part.

Whereas, the First Party offered "Fly Ash" to M/S. Drishti Fire Bricks generated from the proposed AFBC Boiler at the captive Power Plant of BSIPL, The rate of the Fly ash will be decided fortnightly.

Whereas M/S. Drishti Fire Bricks shall arrange to place vehicle for lifting of the Fly ash on daily basis and will pay the freight to the transporter/truck driver as per lorry receipt and at actual being the charges from Unit of BSIPL, Rukni to the unit of M/S. Drishti Fire Bricks. Vehicles carrying Fly ash shall be emptied and release at earliest.

M/S. Drishti Fire Bricks will utilize the Fly ash towards manufacturing of Fly Ash Bricks at its factory at Inanpur.

Period of Agreement: This agreement shall remain in force for a period of 10(ten) years from the date of Commissioning of the proposed captive Power Plant of BSIPL.

Dispute Resolution. That in the event of any dispute of difference between the parties in respect to this Agreement shall be settled by amicable negotiation between the parties failing which the same shall be decided by Arbitration in accordance with provision of Arbitration and conciliation Act, 1966.

In witness thereof the parties here to have executed this above written on the first day of April' 2016

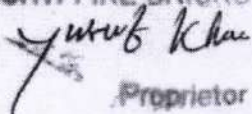
Signed and Delivered by the above

Signed and Delivered by the above

Name:
Degn: Partner
M/S. Drishti Fire Bricks

Name: Deepak Kr. Agarwal
Degn: Director
M/S. Bravo Sponge Iron Pvt. Ltd.

DRISHTI FIRE BRICKS


Proprietor



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

E 505045

AN AGREEMENT BETWEEN PURCHASER AND SUPPLIER

This Deed of Agreement is made and entered into on 18th day of September 2018

BETWEEN

M/s. Bravo Sponge Iron Pvt. Limited having its plant operation at Vill. Mahuda, Post-Rukni, PS- Para, Dist- Purulia (WB) here in after called THE SUPPLIER as Party-1

AND

M/s. Diamond Fly ash Bricks, a non-government organisation having its Office at Purulia, Dubra, Purulia (Tentulhity Road) Pin- 723155 here in after called THE PURCHASER as party-2

Whereas M/s Diamond Fly ash Bricks has a Brick Manufacturing Project at Purulia district of West Bengal is willing to take Fly ash of power plant from party no.-1 for brick making purpose.

And whereas The SUPPLIER expresses their desire to enter into an agreement with the PURCHASER for utilization its fly ash in brick manufacturing.

NOW THIS DEED OF AGREEMENT WITNESSES THE TERMS AND CONDITIONS AS FOLLOWS:

1. That the Agreement shall come into force immediately and shall remain valid for a period of 03 years w. e. f. The date of agreement.

2. That this agreement bears no consideration value means it will of FREE OF COST.
3. That the SUPPLIER will provide facility to PURCHASER to take the fly ash from its premises and the purchaser will lift fly ash accordingly.
4. That the purchaser shall lift the fly ash by his own transportation facilities.
5. That the purchaser shall take all possible care to prevent spillage on road during transportation. To avoid spillage lorry will have to cover with tarpaulin.
6. That the purchaser will not unload the fly ash other than specified place at his works.
7. That the purchaser will have to make water spray on the heap of fly ash during dry weather condition to prevent any further dispersal.
8. That the purchaser shall lift a minimum of 30 MT fly ash on daily basis. This condition will not be applied during shut down of the Supplier's plant operation.
9. That the Supplier reserves the right to discontinue to provide fly ash to purchaser if at any stage it observes that the purchaser is violating the terms and conditions of this agreement.
10. That during any Force Majeure condition which is beyond the control either parties the condition of this agreement shall not be applied.
11. That if any dispute arises among parties in connection with or under this Agreement between the Parties hereto, the matter shall be referred to the Executive Director-Corporate or to an Officer designated by him and if it is remain unresolved the matter will under jurisdiction court at District Purulia (WB).

Signed on the 18TH day of SEPTEMBER 2018 for and on behalf of the Supplier and Purchaser as follows:

Supplier
Bravo Sponge Iron Pvt. Ltd.

1.
Authorized Signatory

PURCHASER
DIAMOND FLY ASH BRICKS

2.
Proprietor



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

E 505046

AN AGREEMENT BETWEEN PURCHASER AND SUPPLIER

This Deed of Agreement is made and entered into on 18th day of September 2018

BETWEEN

M/s. Bravo Sponge Iron Pvt. Limited having its plant operation at Vill. Mahuda, Post-
Rukni, PS- Para, Dist- Purulia (WB) here in after called THE SUPPLIER as Party-1

AND

M/s. B.S.C. REFRACTORIES & CERAMICS, a non-government organisation having its Office at P O-
MONDALPUE, P S- JAMURIA, DIST- BURDWAN, PIN-713336 here in after called THE PURCHASER
as party-2

Whereas M/s. B.S.C. REFRACTORIES & CERAMICS has a Brick Manufacturing Project at BURDWAN
district of West Bengal is willing to take Fly ash of power plant from party no.-1 for brick making
purpose.

And whereas The SUPPLIER expresses their desire to enter into an agreement with the
PURCHASER for utilization its fly ash in brick manufacturing.

NOW THIS DEED OF AGREEMENT WITNESSES THE TERMS AND CONDITIONS AS FOLLOWS:




C.S.K. Tiwari
18/9/18

B. S. C. Refractories and Ceramics
Rajesh Kumar Jaiswal
18/09/18
Partner

1. That the Agreement shall come into force immediately and shall remain valid for a period of 02 years w. e. f. The date of agreement.
2. That this agreement bears no consideration value means it will of FREE OF COST.
3. That the SUPPLIER will provide facility to PURCHASER to take the fly ash from its premises and the purchaser will lift fly ash accordingly.
4. That the purchaser shall lift the fly ash by his own transportation facilities.
5. That the purchaser shall take all possible care to prevent spillage on road during transportation. To avoid spillage lorry will have to cover with tarpaulin.
6. That the purchaser will not unload the fly ash other than specified place at his works.
7. That the purchaser will have to make water spray on the heap of fly ash during dry weather condition to prevent any further dispersal.
8. That the purchaser shall lift a minimum of 20 MT fly ash on daily basis. This condition will not be applied during shut down of the Supplier's plant operation.
9. That the Supplier reserves the right to discontinue to provide fly ash to purchaser if at any stage it observes that the purchaser is violating the terms and conditions of this agreement.
10. That during any Force Majeure condition which is beyond the control either parties the condition of this agreement shall not be applied.
11. That if any dispute arises among parties in connection with or under this Agreement between the Parties hereto, the matter shall be referred to the Executive Director-Corporate or to an Officer designated by him and if it is remain unresolved the matter will under jurisdiction court at District Purulia (WB).

Signed on the 18TH day of SEPTEMBER 2018 for and on behalf of the Supplier and Purchaser as follows:

Supplier



1. [Signature]
 (S. K. Ghosh)
 18/9/18

PURCHASER
 B. S. C. Refractories and Ceramics
[Signature]
 2. 18/09/18
 Partner

Annexure-10

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan',
Bldg. No. - 10A, Block - LA, Sector-III,
Salt Lake City, Kolkata - 700 098



Consent Letter Number : CO100693

apply for renewal of
consent 60 (Sixty) days
before expiry

Memo Number : 2503 - WPBA/Red(Pr1)/Cont(135)/04

Date : 30/11/2016

Consent to Operate

under

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

M/S Bravo Sponge Iron Pvt. Ltd.

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Vill - Mahuda,

P.O - Rukni, P.S - Para,

Dist - Purulia, pin-723145.

(Detailed address of the manufacturing unit)

for a period from up to 31/12/2021

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table 1 & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

(Member Secretary/Chief Engr./Sr. Engr./Env. Engr./Asst. Env. Engr.)

30/11/16

ANNEXURE

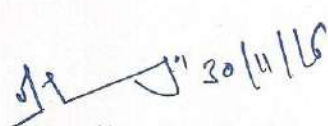
Consent to M/S Bravo Sponge Iron Pvt Ltd.
 for its unit at Vill - Mahuda, P.O - Rukni, P.S - Para,
 Dist - Purulia, pin - 723145.

Conditions :

1. This Consent is valid for the manufacture of :—

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sponge iron	5500 MT
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed Nil KL.
04. Daily discharge of domestic liquid effluent shall not exceed 4.0 KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed Nil KL.
06. The Applicant shall discharge liquid effluent to Septic tank (place of discharge)
 through one (01) nos. outlets/outfalls.
07. To bring into any altered or new outlet/ourfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.


 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Continued.....

Consent to M/S Bravo Sponge Iron Pvt Ltd.
 for its unit at Vill - Mahuda, P.O - Rukni, P.S - Para,
 Dist - Purulia, pin - 723145.

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table - II

Stack No.	Stack height from G.I., (in mts.)	Stack attached to (sources and control system, if any) :	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (% v/v)			
S-1	30	Rotary Kiln (100 TPD & 95 TPD)	-	-	100	1	-	-	Half yearly
S-2	24	Cooler Discharge	-	-	100	-	-	-	-do-
S-3	30	Product House	-	-	100	-	-	-	-do-
S-4	30	Coal Crusher	-	-	100	-	-	-	-do-
S-5	30	Stock House	-	-	100	-	-	-	-do-
S-6	9	D.G.Set (300 KVA)	-	-	150	1	-	-	-do-
S-7	9	D.G.Set (500 KVA)	-	-	150	1	-	-	-do-
S-8									
S-9									
S-10									


 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Continued.....

Consent to M/S Bravo Sponge Iron Pvt Ltd.
 for its unit at Vill - Mahuda, P.O - Rukni, P.S - Para,
 Dist - Purulia. pin - 723145.

11. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	4625 MT/month	Rotary Kiln (100 TPD & 95 TPD).
02	HSD		D.G.Set (500 KVA & 300 KVA).
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below :

Type of waste	Quantity	Treatment	Disposal
Dust Iron Process	8 MT	-	Land Filling
Dust Iron APCD	5 MT	-	Land Filling

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 p.m.)	65
Night Time (09 p.m. to 06 a.m.)	55

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage/plantation.
20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.


 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Continued.....

Consent to..... M/S Bravo Sponge Iron Pvt Ltd.
for its unit at Vill - Mahuda, P.O - Rukni, P.S - Para,
..... Dist - Purulia, pin - 723145.
.....

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* Shall get the samples of hazardous wastes/leachates analysed at least once in..... N.A.
from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form - V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules. 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Applicant* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
34. The *Applicant* shall make an applicant to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions - See Annexure attached.


(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan',
Bldg. No. - 10A, Block-LA, Sector-III,
Salt Lake City, Kolkata-700 098



Consent Letter Number: **CO107559**

Memo Number: **508 - as - ca - 5/10/0135**

Expansion

Date: **28/06/2018**

Consent to Operate

under

Application no. **CO0000000184810**

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to :

M/s. **Bravo Sponge Iron Pvt. Ltd.**

WEST BENGAL

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at **Vill: Mahuda, P.O. Rukni, P.S: Para, Dist. Purulia, Pin - 723145, West Bengal.**

(Detailed address of the manufacturing unit)

for a period from **the date of issue** to **31/12/2021**

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.



For and on behalf of the State Board

28/06/18
Dr. Somnath Narayan
Senior Environmental Engineer
Kankinara Circle Office
West Bengal Pollution Control Board
Asst. Env. Engr.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

ANNEXURE

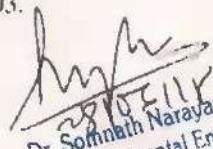
Consent to M/s. Bravo Sponge Iron Pvt, Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist, Purulia, Pin-723145,
West Bengal.

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sponge Iron	3000 TPM
02	Dole Char	600 TPM (Captive use)
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

- 02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
- 03. Daily discharge of industrial liquid effluent shall not exceed KL.
- 04. Daily discharge of domestic liquid effluent shall not exceed KL.
- 05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed KL.
- 06. The Applicant shall discharge liquid effluent to (place of discharge) through nos. outlets/outfalls.
- 07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
- 08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-1 in page 03.

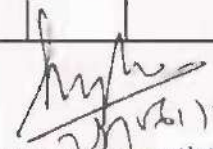

 Dr. Somnath Narayan
 Senior Environmental Engineer
 Mahinara Circle Office
 W.B. Pollution Control Board
 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Engr.)

Consent to M/s. Brave Sponge Iron Pvt. Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145,
West Bengal.

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table - II (See Annexure)

Stack No.	Stack height from G.I., (in mts.)	Stack attached to (sources and control system, if any) :	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed			Frequency of emission sampling
					SPM (mg/Nm ³)	CO (% v/v)		
S-1								
S-2								
S-3								
S-4								
S-5								
S-6								
S-7								
S-8								
S-9								
S-10								


 (Member Secretary/Chief Engr./Sr. Inv. Engr./Env. Engr./Assst. Engr.)
Dr. Somnath Narayan
 Senior Environmental Engineer
 Kankinara Circle Office
 W.B., Pollution Control Board
 20/11/15

Consent to M/s. Brave Sponge Iron Pvt. Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145,
West Bengal.

11. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
15. The *Applicant* shall observe the following fuel consumption pattern =

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	-	DRI Kiln (1x100 TPD)
02			
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below :

Type of waste	Quantity	Treatment	Disposal
Fly Ash	150 TPM	-	to be disposed of environmentally safe manner.
-	-	-	-

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :—

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

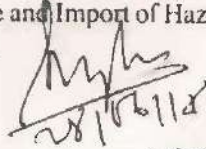
18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage/plantation.
20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)
 Dr. Somnath Dasgupta
 Senior Environmental Engineer
 Kankinara Circle Office
 W.B. Pollution Control Board

Consent to M/s. Bravo Sponge Iron Pvt. Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145,
West Bengal.

24. The Applicant shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The Applicant shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The Applicant shall provide adequate and safe facility for collection of air, wastewater and solid waste samples by the State Board's staff as well as State Board's authorised agencies.
27. The Applicant shall submit to the State Board by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form-V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules, 1992.
28. The Applicant shall allow the Officers of the State Board to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The Applicant shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the State Board for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The Applicant shall furnish to the State Board all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The Applicant shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
32. The Applicant shall have to make registration for the use of groundwater, if any, with Central Ground Water Authority.
33. The Applicant shall intimate to the State Board immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident / event including natural disaster. The Applicant shall (i) take all steps adequate to prevent such accidental discharge / release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
34. The Applicant shall make an application to the State Board in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The Applicant shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The Applicant shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions - See Annexure.


 Dr. Somnath Narayan
 Senior Environmental Engineer
 Range Asst. Env. Engg. Office
 W.B., Pollution Control Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr. Circle Office)



WEST BENGAL POLLUTION CONTROL BOARD
 (Department of Environment, Government of West Bengal)
 Office of the Senior Environmental Engineer
 Kankinara Circle Office
 Kankinara Circle Office
 Panpur More, P.O. - Narayanpur, Kankinara, 24 Parganas (N), Pin - 743 126

SPECIAL CONDITION

Annexure to Consent to Operate Letter Number: CO.10/559 of M/s. Bravo Sponge Iron Pvt Ltd located at the existing unit at Vill. Mahuda, P.O. Rukni, Dist. Purulia, PIN 722145

1. Conditions mentioned in the Environmental Clearance issued by MOEF Vide No. J 11011 /758/2009 - IA II (I) dated 18/04/2017 must be complied with.
2. Conditions mentioned in the Consent To Establish (NOC) issued by the State Board vide Memo No. 264 2N 11/2007(E) dated 09/06/ must be complied with
3. FORM V for Environmental Statement and six monthly compliance report as per condition of Environmental Clearance must be submitted before due date
4. Emission Standards as mentioned below must be complied with

Table-II

Sl.No.	Stack height from GL (in mts.)	Stack attached to (Sources & control system, if any)	Volume Nm ³ /hr	Velocity of gaseous emission (m/sec)	Concentration of parameters not to exceed						Frequency of sampling
					SPM (mg./Nm ³)	CO (%v/v)	SO ₂ (mg./Nm ³)	NO _x (mg./Nm ³)	NO _x (mg./Nm ³)	NO _x (mg./Nm ³)	
S-1	30.0	3rd DRI Kiln(1x100TPD)	-	-	50 at 12% CO ₂	<1.0	-----	-----	-----	-----	Quarterly
S-2	30.0	Cooler Discharge(common with 4 th DRI Kiln)	-	-	50.0	-	-	-	-	-	-
S-3	30.0	Intermediate Bin(common with 4 th DRI Kiln)	-	-	50.0	-	-	-	-	-	-
S-4	30.0	Product House(common with 4 th DRI Kiln)	-	-	50.0	-	-	-	-	-	-
S-5	30.0	Coal Ground Hopper(common with 4 th DRI Kiln)	-	-	50.0	-	-	-	-	-	-
S-6	30.0	Iron Ground Hopper(common with 4 th DRI Kiln)	-	-	50.0	-	-	-	-	-	-

5. Individual stack for DRI Kiln 3 & 4 must be installed to judge the efficacy of the individual ESP of the each kiln. It must be completed within 31.10.2018

6. This Consent to Operate for operation may be revoked at any time for non-compliance of the Environmental Statutes.

[Signature]
 For and on behalf of the Board
 Dr. Somnath Narayan
 Senior Environmental Engineer
 Kankinara Circle Office
 W.B., Pollution Control Board

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan',
Bldg. No. - 10A, Block-LA, Sector-III,
Salt Lake City, Kolkata-700 098



Consent Letter Number: **EO107560**

Memo Number: **SOI - AS - CO - S / 10 / 0135** Expansion

Date: **28/06/2018**

Consent to Operate

under Application no. **CO0000000197599**

Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974 and
Section 21 of the Air (Prevention and Control of Pollution) Act, 1981.

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended, and Rules and Orders made thereunder, hereby grants its consent to ;

M/s. **Bravo Sponge Iron Pvt. Ltd.,**

WEST BENGAL

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at **Vill: Mahuda, P.O: Rukni, P.S: Para,**
Dist. Purulia, Pin - 723145.

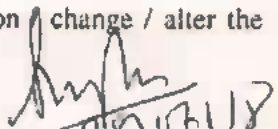
(Detailed address of the manufacturing unit)

for a period from **the date of issue** to **31/12/2021**

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation change / alter the conditions of this consent letter giving one month's notice to the applicant.


Dr. Somnath Narayan

Senior Environmental Engineer
Kankinara Circle Office
W.B. Pollution Control Board

For and on behalf of the State Pollution Control Board



(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

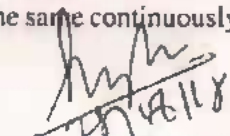
ANNEXURE

Consent to M/s. Brave Sponge Iron Pvt. Ltd.,for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin - 723145.**Conditions :**

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sponge Iron (1x100 TPD Kiln)	3000 TPM.
02	Steel Billets (2x12T/heat Induction furnace)	7200 TPM.
03	Captive Power Plant	10 MW
04	(4x10 TPH WHRB+1x20 TPH AFBC Boiler)	
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed KL.
04. Daily discharge of domestic liquid effluent shall not exceed KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed KL.
06. The Applicant shall discharge liquid effluent to (place of discharge) through nos. outlets/outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.


 Dr. Somnath Narayan
 Senior Environmental Engineer
 Kankinara Circle Office
 WB Pollution Control Board

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Consent to M/s. Brave Sponge Iron Pvt. Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145.

11. The Applicant shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the State Board.
12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to facilitate identification.
13. The Applicant shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the Standard as given in Table-II below :

Table - II (See Annexure)

Stack No.	Stack height from G.L., (in mts.)	Stack attached to (sources and control system, if any) :	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed			Frequency of emission sampling
					SPM (mg/Nm ³)	CO (% v/v)		
S-1								
S-2								
S-3								
S-4								
S-5								
S-6								
S-7								
S-8								
S-9								
S-10								

(Member Secretary/Chief Engr./Sr. Env. Engr./Asst. Env. Engr.)

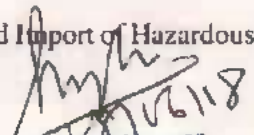
[Signature]
 Dr. Somnath Narayan
 Senior Environmental Engineer
 Korulia Circle Office
 W.B., Pollution Control Board

Continued...P/5

Consent to M/s. Brave Sponge Iron Pvt. Ltd.,
 for its unit at Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145.

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in
 from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, wastewater and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form-V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] Rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an ~~Inspection Book in the factory premises which shall~~ be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Applicant* shall furnish to the ~~State Board~~ all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and/or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater, if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quantity as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident / event including natural disaster. The *Applicant* shall (i) take all steps adequate to prevent such accidental discharge / release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment. (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous, noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions - See Annexure.


 Dr. Somnath Narayan
 Senior Environmental Engineer
 Kanaknara Circle Office
 W.B. Pollution Control Board
 (Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Consent to **M/s. Brave Sponge Iron Pvt. Ltd.,**
 for its unit at **Vill: Mahuda, P.O: Rukni, P.S: Para, Dist. Purulia, Pin-723145.**

11. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.
15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No.	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	-	DRI Kiln (1x100 TPD) and
02	-	-	AFBC Boiler (1x20 TPH).
03	-	-	
04			
05			

16. The *Applicant* shall maintain the generation and treatment / disposal of non-hazardous solid waste as specified below :

Type of waste	Quantity	Treatment	Disposal
Dolochar	448 TPM		Captive use.
Ash			to be sold to cement manufacture.

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 08 p.m.)	75
Night Time (09 p.m. to 06 a.m.)	70

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.
19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage/plantation.
20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.
21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.
22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.
23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste.

(Member Secretary/Chief Engr./Sr. Env. Engr./Env. Engr./Asst. Env. Engr.)

Dr. Sanku Nath
 Senior Environmental Engineer
 Mahuda Circle Office
 W.B. Pollution Control Board

Continued... P/6



WEST BENGAL POLLUTION CONTROL BOARD
 (Department of Environment, Government of West Bengal)
 Office of the Senior Environmental Engineer
 Kankinara Circle Office
 Kankinara Circle Office
 Panpur More, P.O. – Narayanpur, Kankinara, 24 Parganas (N), Pin – 743 126

SPECIAL CONDITION

Annexure to Consent to Operate Letter Number CO 107560 of M/s. Bravo Sponge Iron Pvt. Ltd located at the existing unit at Vill. Mahuda P.O.-Rukni, Dist. Purulia, PIN 722145

1. Conditions mentioned in the Environmental Clearance issued by MOEF Vide No. J. 11011/758/2009 – IA II (I) dated 18/04/2017 must be complied with
2. Conditions mentioned in the Consent To Establish (NOC) issued by the State Board vide Memo No. 264 2N 117/2007(E) dated 09/06/ must be complied with.
3. FORM V for Environmental Statement and six monthly compliance report as per condition of Environmental Clearance must be submitted before due date.
4. Emission Standards as mentioned below must be complied with.

Table II

Sl No.	Stack height from GL (in mts.)	Stack attached to (Sources & control system, if any)	Volume Nm ³ /hr	Velocity of gaseous emission (m/sec)	Concentration of parameters not to exceed					Frequency of sampling
					SPM (mg./Nm ³)	CO (%v/v)	SO ₂ (mg/Nm ³)	NO _x (mg/Nm ³)		
S-1	45.0	AFBC Boiler(1x20TPH)	-	-	50 at 12% CO ₂	<1.0	600 at 6% O ₂	300 at 6% O ₂		Quarterly
S-2	30.0	4 th DRI Kiln(1x100TPD)	-	-	50 at 12% CO ₂	<1.0	-----	-----		
S-3	30.0	Cooler Discharge	-	-	50.0	-	-	-		
S-4	30.0	Intermediate Bin	-	-	50.0	-	-	-		
S-5	30.0	Product House	-	-	50.0	-	-	-		
S-6	30.0	Coal Ground Hopper	-	-	50.0	-	-	-		
S-7	30.0	Iron Ground Hopper	-	-	50.0	-	-	-		
S-8	30.0	Induction Furnace(2x12T/Heat each)	-	-	50.0	-	-	-		

5. This Consent to Operate for operation may be revoked at any time for non compliance of the Environmental Statutes.

[Signature]
 for and on behalf of the Board
 Dr. Somnath Narayan
 Senior Environmental Engineer
 Kankinara Circle Office
 W.B., Pollution Control Board



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Government of West Bengal)

Office of the Senior Environmental Engineer

Kankinara Circle Office

Panpur More, P.O. – Narayanpur, Kankinara, 24-Parganas (N), Pin – 743 126

Memo no. 1859 - 181/WPB/SEE (K) GEW/2004 Date: 12.03.2019

To

M/s. Bravo Sponge Iron Pvt Ltd,
"Diamond Prestige", 41A, A.J.C. Bose Road,
8th Floor, Room no 801
Kolkata- 700017.

Sub : Amendment of the "Consent to Operate" no CO107560 issued vide memo no 507-as-co-s/10/0135 dtd 28.06.2018.

Ref : Your letter dated : 11/03/2019.

Sir,

With reference to the above this is to inform you that the "Consent to Operate" no CO107560 issued vide Memo no.507-as-co-s/10/0135 dtd 28.06.2018. is hereby amended as follows:-

In page.no 2, of the said certificate under Condition No 1, and serial no 8 of the attached annexure "2×12Ton/Heat induction furnace" should be read as "2×15Ton/Heat Induction furnace".

All other terms and conditions as mentioned in the "Consent to Operate" letter number CO107560, dated : 28/06/2018, will remain unchanged.

Treat this letter as an annexure of "Consent to Operate" letter number CO107560, dated : 28/06/2018.

Yours faithfully,

Senior Environmental Engineer
Kankinara Circle Office

Annexure-11A



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/58

TEST REPORT

1.	Name of the Industry / Project	:	Bravo Sponge Iron Pvt. Ltd.
2.	Address	:	Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	:	Integrated Steel Plant
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Work Zone Noise
7.	Sample ID	:	ENV/12/Sep/N
8.	Report ID	:	ENV/12/Sep/N/1/20-21
9.	Date of Study	:	27/09/2020
10.	Reporting Date	:	03/10/2020
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet
14.	Sample Monitoring by	:	Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

Time :11:00 - 11:20 A.M

DAY TIME

1. Location : Raw Material Handling Section (Raw Material Stock Yard)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	59.5	63.9	62.63	East Side
02.	dB(A)	58.2	63.4	61.54	West Side
03.	dB(A)	59.0	64.1	62.26	North Side
04.	dB(A)	59.2	64.7	62.77	South Side
Average dB(A) Leq				62.30	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/58

TEST REPORT

1.	Name of the Industry / Project	:	Bravo Sponge Iron Pvt. Ltd.
2.	Address	:	Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	:	Integrated Steel Plant
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Work Zone Noise
7.	Sample ID	:	ENV/12/Sep/N
8.	Report ID	:	ENV/12/Sep/N/II/20-21
9.	Date of Study	:	27/09/2020
10.	Reporting Date	:	03/10/2020
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet
14.	Sample Monitoring by	:	Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

Time :11:30 - 11:50 A.M

DAY TIME

2. Location :In between DRI - 1 & 2 and 3 & 4 (DRI - Section)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	74.8	79.1	77.46	East Side
02.	dB(A)	75.9	78.2	76.20	West Side
03.	dB(A)	75.3	78.5	76.19	North Side
04.	dB(A)	75.2	79.3	77.72	South Side
Average dB(A) Leq				76.89	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
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Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/58

TEST REPORT

1.	Name of the Industry / Project	:	Bravo Sponge Iron Pvt. Ltd.
2.	Address	:	Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	:	Integrated Steel Plant
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Work Zone Noise
7.	Sample ID	:	ENV/12/Sep/N
8.	Report ID	:	ENV/12/Sep/N/III/20-21
9.	Date of Study	:	27/09/2020
10.	Reporting Date	:	03/10/2020
11.	Method No.	:	IS: 9989 - 1981
12.	Time of Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet
14.	Sample Monitoring by	:	Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

Time :12:00 - 12:20 P.M

DAY TIME

3. Location : Near AFBC Boiler Area (CPP Division)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	71.2	74.0	72.82	East Side
02.	dB(A)	70.1	73.7	72.26	West Side
03.	dB(A)	71.5	74.8	73.46	North Side
04.	dB(A)	72.0	75.0	73.75	South Side
Average dB(A) Leq				73.07	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

Annexure-11B



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007



NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

Vill. – Mahuda, P.O – Rukni, P.S – Para, District – Purulia, Pin - 723145

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : 67/EC/M/N/I/20-21

Sampling Locations :	Near Security Gate – Western Side	Date of Study :	27/09/2020
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	51.1	54.2	52.92	55.68
7:00 AM to 8:00 AM	50.9	53.7	52.52	
8:00 AM to 9:00 AM	51.8	55.2	53.82	
9:00 AM to 10:00 AM	53.7	55.1	54.46	
10:00 AM to 11:00 AM	54.8	56.1	55.50	
11:00 AM to 12:00 PM	53.9	56.2	55.20	
12:00 PM to 1:00 PM	53.2	57.0	55.50	
1:00 PM to 2:00 PM	52.3	57.1	55.33	
2:00 PM to 3:00 PM	55.1	59.9	58.13	
3:00 PM to 4:00 PM	55.3	57.7	56.66	
4:00 PM to 5:00 PM	54.8	59.3	57.61	
5:00 PM to 6:00 PM	56.3	59.2	57.99	
6:00 PM to 7:00 PM	55.8	58.3	57.23	
7:00 PM to 8:00 PM	54.1	56.2	55.28	
8:00 PM to 9:00 PM	52.3	54.9	53.79	
9:00 PM to 10:00 PM	51.9	54.2	53.20	

Date of Study :	27/09/2020 to 28/09/2020	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	51.0	53.1	52.18	52.44
11:00 PM to 12:00 AM	50.3	53.0	51.86	
12:00 AM to 1:00 AM	51.4	53.9	52.83	
1:00 AM to 2:00 AM	50.2	57.7	51.63	
2:00 AM to 3:00 AM	51.1	53.8	52.66	
3:00 AM to 4:00 AM	50.9	54.1	52.79	
4:00 AM to 5:00 AM	50.4	53.2	52.02	
5:00 AM to 6:00 AM	51.7	54.5	53.32	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 03/10/2020



Certified by : (Signature)
Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
Email : envcheck@cal2.vsnl.net.in/envirocheck50@gmail.com / Website : www.envirocheck.org
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ENVIROCHECK

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NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

Vill. – Mahuda, P.O – Rukni, P.S – Para, District – Purulia, Pin - 723145

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : 67/EC/M/N/II/20-21

Sampling Locations :	Mohuda Village (0.5 KM from Plant) – Southern Side	Date of Study :	27/09/2020
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	47.3	50.2	48.99	52.15
7:00 AM to 8:00 AM	48.1	51.1	49.85	
8:00 AM to 9:00 AM	50.1	52.7	51.59	
9:00 AM to 10:00 AM	48.3	51.4	50.12	
10:00 AM to 11:00 AM	49.8	52.3	51.23	
11:00 AM to 12:00 PM	50.1	53.2	51.92	
12:00 PM to 1:00 PM	51.3	52.7	52.06	
1:00 PM to 2:00 PM	50.7	52.9	51.94	
2:00 PM to 3:00 PM	50.3	52.5	51.54	
3:00 PM to 4:00 PM	51.1	53.9	52.72	
4:00 PM to 5:00 PM	50.6	54.2	52.76	
5:00 PM to 6:00 PM	53.9	54.5	54.21	
6:00 PM to 7:00 PM	52.7	56.6	55.07	
7:00 PM to 8:00 PM	50.8	54.3	52.89	
8:00 PM to 9:00 PM	49.7	52.8	51.52	
9:00 PM to 10:00 PM	48.3	53.9	51.95	

Date of Study :	27/09/2020 to 28/09/2020	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	44.6	46.5	45.65	43.41
11:00 PM to 12:00 AM	40.5	42.8	41.80	
12:00 AM to 1:00 AM	39.2	40.1	39.67	
1:00 AM to 2:00 AM	39.6	41.5	40.65	
2:00 AM to 3:00 AM	40.7	43.2	42.13	
3:00 AM to 4:00 AM	40.2	42.8	41.69	
4:00 AM to 5:00 AM	43.5	44.6	44.08	
5:00 AM to 6:00 AM	44.1	48.2	46.62	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 03/10/2020

Certified by : (Signature)
Dr. S. B. Chowdhury



H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
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NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

Vill. – Mahuda, P.O – Rukni, P.S – Para, District – Purulia, Pin - 723145

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : 67/EC/M/N/III/20-21

Sampling Locations :	Near Railway Siding Area – Northern Side	Date of Study :	27/09/2020
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	57.2	60.9	58.12	63.46
7:00 AM to 8:00 AM	56.7	62.5	60.50	
8:00 AM to 9:00 AM	60.2	65.9	63.92	
9:00 AM to 10:00 AM	62.7	66.8	65.72	
10:00 AM to 11:00 AM	55.8	63.3	60.12	
11:00 AM to 12:00 PM	50.1	62.8	53.89	
12:00 PM to 1:00 PM	60.3	64.3	62.35	
1:00 PM to 2:00 PM	61.8	64.7	63.45	
2:00 PM to 3:00 PM	60.7	62.3	61.48	
3:00 PM to 4:00 PM	61.8	62.9	62.56	
4:00 PM to 5:00 PM	60.7	67.7	65.90	
5:00 PM to 6:00 PM	62.8	66.2	64.15	
6:00 PM to 7:00 PM	63.8	67.3	65.10	
7:00 PM to 8:00 PM	62.3	67.1	63.90	
8:00 PM to 9:00 PM	61.9	66.3	64.78	
9:00 PM to 10:00 PM	62.2	69.9	65.89	

Date of Study :	27/09/2020 to 28/09/2020	Night time :	10 PM to 6 AM
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Time (hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	55.1	58.6	57.19	54.61
11:00 PM to 12:00 AM	52.4	58.3	56.28	
12:00 AM to 1:00 AM	52.8	58.7	56.68	
1:00 AM to 2:00 AM	45.5	49.6	48.02	
2:00 AM to 3:00 AM	43.4	46.2	51.15	
3:00 AM to 4:00 AM	40.1	43.8	42.33	
4:00 AM to 5:00 AM	45.9	55.8	53.21	
5:00 AM to 6:00 AM	53.9	58.5	56.78	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 03/10/2020



Certified by : (Signature)
Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
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NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

Vill. – Mahuda, P.O – Rukni, P.S – Para, District – Purulia, Pin - 723145

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : 67/EC/M/N/IV/20-21

Sampling Locations :	Near Main Administrative Building – Eastern Side	Date of Study :	27/09/2020
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	51.3	55.1	53.60	57.35
7:00 AM to 8:00 AM	50.2	54.5	52.86	
8:00 AM to 9:00 AM	50.6	53.1	52.03	
9:00 AM to 10:00 AM	51.7	55.3	53.86	
10:00 AM to 11:00 AM	54.5	58.7	57.09	
11:00 AM to 12:00 PM	54.7	59.2	57.51	
12:00 PM to 1:00 PM	55.1	58.7	57.26	
1:00 PM to 2:00 PM	54.9	60.7	58.70	
2:00 PM to 3:00 PM	55.3	59.2	57.67	
3:00 PM to 4:00 PM	59.2	61.7	60.63	
4:00 PM to 5:00 PM	54.7	59.9	58.04	
5:00 PM to 6:00 PM	55.3	58.2	56.99	
6:00 PM to 7:00 PM	59.4	61.3	60.45	
7:00 PM to 8:00 PM	54.6	59.2	57.48	
8:00 PM to 9:00 PM	55.3	58.8	57.39	
9:00 PM to 10:00 PM	54.8	57.3	56.23	

Date of Study :	27/09/2020 to 28/09/2020	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	54.8	57.4	56.29	54.39
11:00 PM to 12:00 AM	53.1	56.7	55.26	
12:00 AM to 1:00 AM	52.4	55.7	54.36	
1:00 AM to 2:00 AM	51.9	55.2	53.86	
2:00 AM to 3:00 AM	51.1	54.3	52.99	
3:00 AM to 4:00 AM	50.7	53.7	53.46	
4:00 AM to 5:00 AM	51.5	55.9	54.23	
5:00 AM to 6:00 AM	50.1	55.6	53.67	

L_{min} : Minimum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 03.10.2020

Certified by : (Signature)
Dr. S. B. Chowdhury



H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25497490, Fax : 033-25299141
 Laboratory : 189,190&192 Rastraguru Avenue, Kolkata - 700028 [033-25792889
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Annexure-12



SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
 Name B. Dubey Father/Husband Nandey Dubey
 Department Security Age 48 Sex M Blood Group 'B' (+ Positive)

Relevant Personal History NO
 Relevant Family History NO
 Prelisting Disease if any NO

Physical Examination:

General Health OK
 Weight 82 kg. Abdomen Normal
 B.P. 140/92 PLUS 86 CBG 135
 Anemia NO
 Jaundice NO

(Blood) ~~RH FACTOR~~ Hb-12.8, Hc-61, LY-33, Eo-05, Mo-01, Ba-00, ESR-20mm, Tc-7400/cu

Chest Ecu - Normal, X-ray - Normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist 6/6 No c glau. ev normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020.

Name Sunil Murmu Father/Husband Ukil Murmu

Department RMP (DRI) Age _____ Sex _____ Blood Group "B" (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health OK

Weight 62 kg. Abdomen Normal

B.P. 135/87 PLUS 70 CBG 118

Anemia No

Jaundice No

(Blood)
RHEFACTOR Hb-12.2, Ne-69, L4-26, Eo-04, Mo-01, Ba-00, ESR-20 TC-660/cu

Chest ECG- Normal, X-ray- Normal

CNS _____

Ear _____

EYE Anterior 6/6 N6 & plus +2.50s ev Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020

Name Uttam KR Bauri Father/Husband Anil Bauri

Department Automobile Age 36 Sex M Blood Group 'B' (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health Good

Weight 71 kg. Abdomen Soft

B.P. 135/86 PLUS 70 CBG 129

Anemia No

Jaundice No

(Blood)
RHEFACTOR Hb-10.3, ESR-40, TC-5400, Ne-62, Lx-33, Eo-04, Mo-01, Ba-00%.

Chest Ech - Normal,

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist G/B NG cv Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

VIII-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020.

Name Manoj Tiwari Father/Husband _____

Department SMS Age 45 Sex M Blood Group _____

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health Good

Weight 79kg. Abdomen Soft

B.P. 140/92 PLUS 82 CBG 135

Anemia No

Jaundice No

RH FACTOR _____

Chest Ech - Abnormal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist 6/6 Hb to glau. cr Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer



(20)
218

SCHILLER



SHAKAMBHARI GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Kundan Singh

Father/Husband Manoj Kung. Singh

Department Lab

Age 34 Sex M Blood Group B' (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health Good

Weight 58 kg

Abdomen Soft

B.P. 125/76

PLUS FL

CBG 128

Anemia No

Jaundice No

(Blood) -

~~RH FACTOR~~ Hb - 14.2, Ht - 167, LY - 29, Eo - 03, Mo - 01, Ba - 00, ESR - 07, TC - 7.40 KC

Chest ECG - Normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE DITG/6, NB Near ev Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulla (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
 Name Prakhar Abidas Father/Husband Bahudeb
 Department Grane operator Age 32 Sex M Blood Group 'AB' (+ve)
 Relevant Personal History No
 Relevant Family History No
 Prelisting Disease if any No

Physical Examination:

General Health Good
 Weight 79kg Abdomen Soft
 B.P. 122/84 PLUS 87 CBG 135
 Anemia No
 Jaundice No
 (Blood)
 RH FACTOR Hb-15.6, Ne-56, Ly-39, Eo-04, Mo-01, Ba-00, ESR-05, TC-7.70/cu
 Chest ECU - Normal
 CNS _____
 Ear Bell-ears Hearing Sensitivity is normal
 EYE Dist 6/6 No n.c.m. cv Normal
 Investigation (if any) _____
 Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Rabin Beeni Father/Husband Ananda Beeni

Department Auto mobile Age 30 Sex M Blood Group 'A' (tve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health Good

Weight 68kg Abdomen Soft

B.P. 117/76 PLUS 87 CBG 106

Anemia No

Jaundice No

(Blood)

~~RH FACTOR~~ Hb-12.5, Ne-55, LY-41, Fo-02, MO-02, Ba-00, ESR-20, Tc- 6,600/cu

Chest ECR- Normal

CNS _____

Ear Both ears hearing sensitivity is normal

EYE Dist 6/6 Near 26 cv normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Birinchi Mahato Father/Husband Bistu

Department Crane operator Age 38 Sex M Blood Group "B" (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health Good

Weight 76kg Abdomen Soft

B.P. 135/87 PLUS 70 CBG 125

Anemia No

Jaundice (Blood) No

~~RH FACTOR~~ Hb-12.2g/dl, Hc-69, LY-25, Eo-05, MO-01, Ba-00% ESR-20mm/hr G-6000/cmm

Chest Ech-Normal

CNS _____

Ear Both ears hearing sensitivity is normal

EYE Dist 6/6 No cataract or glaucoma

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Pintu Dalua Father/Husband Mihir Dalua

Department DRS Electri Age 43 Sex M Blood Group "B" (+ve)

Relevant Personal History NO

Relevant Family History NO

Prelisting Disease if any NO

Physical Examination:

General Health Good

Weight 79 kg Abdomen Soft

B.P. 125/90 PLUS 85 CBG 128

Anemia NO

Jaundice NO

(Blood)
~~RH FACTOR~~ HD-13.2, HE-70, LY-26, EO-03, MO-01, Ba-00, ESR-15, TC-10,000/cv

Chest ECG-Normal

CNS _____

Ear Both ear Hearing Sensitivity is normal

EYE Dist 6/6 NB EV Normal

Investigation (if any) NO

Further Advice NO

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
 Name Buddeshwar Mummy Father/Husband Ananda Murnu
 Department DRI process Age 33 Sex M Blood Group "B" (+ve)
 Relevant Personal History No
 Relevant Family History No
 Prelisting Disease if any No

Physical Examination:

General Health OK (Good)
 Weight 70 kg Abdomen Normal (Soft)
 B.P. 115/72 PLUS 82 CBG 138
 Anemia _____

Jaundice _____
 (Blood)
~~RHE~~FACTOR Hb-15.3, Hc-64, Lf-31, Eo-04, Hb-01, Ba-00, ESR-05mm, Tc-5,403/cu mm.

Chest ECG - Normal, X-ray - Normal
 CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist 6/6 Hb near 20 Normal

Investigation (if any) No

Further Advice No

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
Name Shisir Bajari Father/Husband Aghori Bajari
Department Automobile Age 33 Sex M Blood Group O (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health OK (good)

Weight 73 kg. Abdomen Normal.

B.P. 140/90 PLUS ++ CBG 132

Anemia No

Jaundice No

(Blood)
RHEFACTOR Hb-12.3, Hc-71, LY-20, Eo-07, Mo-02, Ba-00, ESR-25mm, Tc-8100/cu

Chest ECG- Normal, X-ray- Normal

CNS _____

Ear Both Ears Hearing Sensitivity is normal

EYE Int 6/6 Mb = glau. part.

Investigation (if any) No

Further Advice None

Checked by
Medical Officer



BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
Name Sayal Das Father/Husband Craigadhy Das
Department RMP (DRT) Age 41 Sex M Blood Group "O" (+ve)
Relevant Personal History No
Relevant Family History No
Prelisting Disease if any No

Physical Examination:

General Health OK (Good)
Weight 78 kg. Abdomen Normal (Soft)
B.P. 123/72 PLUS 79 CBG 105
Anemia No

Jaundice No
(Blood) Hb-15.8gm/l, Hc-58, Lx-30, Eo-10, Mo-02, Ba-00f, ESR-05mm, TC-10/100mm
RH FACTOR _____

Chest Ech-Normal, X-ray-normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist of 6/6 ab near. cv Normal

Investigation (if any) No

Further Advice No

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Snyamal Mahato Father/Husband Kullesh Mahato

Department Automobile Age 35 Sex M Blood Group 'A' (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health OK. (good)

Weight 63kg. Abdomen Normal (Soft)

B.P. 135/90 PLUS 81 CBG 123

Anemia _____

Jaundice _____

(Bleed)
~~RH FACTOR~~ Hb-14.6, Ne-63, LY-28, Eo-07, MO-02, Ba-00, ESR-65mm, TC-6,700/cu

Chest ECG - Normal, X-ray - Normal

CNS _____

Ear Both ears Hearing sensitivity is normal

EYE Dist 6/6 NG Near. ev Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





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GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
Name Duryodhan Mondal Father/Husband Ajit Mondal
Department Automobile Age 32 Sex M Blood Group 'A' (+ve)

Relevant Personal History No

Relevant Family History No

Preexisting Disease if any No

Physical Examination:

General Health OK (Good)

Weight 57kg Abdomen Normal

B.P. 117/80 PLUS 76 CBG 110

Anemia _____

Jaundice _____

(Blood)
RH FACTOR Hb-13g, Ne-63, LY-33, Eo-03, Mb-01, Ba-00, ESR-15, TC-780/ccc

Chest Xray - CT scan is normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist 6/6 No Near EV Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI GROUP

BRAVO SPONGE IRON PVT. LIMITED

VIII-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
 Name Prasanta Borei Father/Husband Narogh Borei
 Department process (BRI) Age 33 Sex M Blood Group B⁺ (+ve)

Relevant Personal History NO
 Relevant Family History NO
 Prelisting Disease if any NO

Physical Examination:

General Health OK
 Weight 62kg Abdomen Normal
 B.P. 120/85 PLUS 83 CBG 116

Anemia _____

Jaundice _____

^(Blood)
~~RHE~~FACTOR Hb-18.3, Ne-61, Ly-30, Eo-07, Mo-02, Ba-00, ESR-05, TC-7,400/cu2.

Chest Ech- Normal, Xray- normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Assume - Ac - 6/18 16 CV Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____ Date: 17/07/2020
 Name Rinke Singh Father/Husband B.P. Singh
 Department Security Age 41 y Sex _____ Blood Group "O" (+ve)
 Relevant Personal History No
 Relevant Family History No
 Prelisting Disease if any No

Physical Examination:

General Health OK
 Weight 78 Abdomen Normal
 B.P. 140/95 PLUS 86 CBG 118
 Anemia No
 Jaundice No
 (Blood)
 RHEFACTOR Hb-14.4, Hc-66, Lx-30, Eo-02, Mo-02, Ba-00, ESR-10mm, Tc-10,800/cd
 Chest x-ray - Normal
 CNS _____
 Ear Bell ear Hearing Sensitivity is normal
 EYE Dist e/lb Ab Near low glau EV Normal
 Investigation (if any) _____
 Further Advice _____

Checked by
Medical Officer



VIVEKANANDA
HOSPITAL
— Passion for Caring —



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BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Arvind Rai Father/Husband _____

Department Security Age 47 Sex M Blood Group "B" (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health OK

Weight 85 kg Abdomen Normal

B.P 135/85 PLUS 80 CBG 135

Anemia No

Jaundice No

(Blood) ~~HAEMATOLOGICAL~~ Hb-13.0, Hc-67, LY-26, Eo-06, Mo-01, Ba-00, ESR-15, TC-7, 100/cu

Chest ECG-Normal, Xray- CT vertebra is normal

CNS _____

Ear Both ears Hearing Sensitivity is normal

EYE Dist 6/6 No cataract, CV Normal

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer





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GROUP

BRAVO SPONGE IRON PVT. LIMITED

Vill-Mahuda, PO-Rukni, Dist-Purulia (WB)

HEALTH CARD OF EMPLOYEE

Registration No. _____

Date: 17/07/2020

Name Bimal yadav Father/Husband Kirtu yadav

Department Crane operator Age 32 Sex M Blood Group 'B' (+ve)

Relevant Personal History No

Relevant Family History No

Prelisting Disease if any No

Physical Examination:

General Health OK

Weight 70kg Abdomen Normal

B.P. 135/85 PLUS 90 CBG 118

Anemia No

Jaundice No

~~RH FACTOR~~ (Blood) Hb-14.8, Hc-60, LY-35, Eo-04, Mo-01, Ba-00, ESR-10, Tc-7700 /cu

Chest ECG-Normal, X-ray-Normal

CNS _____

Ear Both ears ^{Hear} Sensitivity is normal

EYE Dist 6/6 Hb Hear ev normally

Investigation (if any) _____

Further Advice _____

Checked by
Medical Officer



Annexure-13



R K Mishra <rk.mishra@shakambhariispat.com>

Submission of Environment Statement (Form-V) for FY: 2019-20 of M/S Bravo Sponge Iron Pvt. Limited

1 message

R K Mishra <rk.mishra@shakambhariispat.com>

Thu, Oct 29, 2020 at 7:07 PM

To: mswarupk@wbpcb.gov.in

Cc: roez.bsr-mef@nic.in, SK Sachan <sksachan@shakambhariispat.com>

Bcc: Sanjay Kumar Singh <sanjay.singh@shakambhariispat.com>

Dear Sir,

With reference to above subject we are submitting attached herewith the Environment Statement (Form-V) for the financial year ending 31st March, 2020 of M/S Bravo Sponge Iron Pvt. Limited, Vill-Mahuda, PO-Rukni, Dist-Purulia (WB) for your kind consideration please.

Kindly acknowledge our submission

With regards,

Yours faithfully,

for **Bravo Sponge Iron Pvt. Limited**

R. K. Mishra

AGM-EHS

 **BSIPL-Env. Statement (Form-V)_2019-20.pdf**
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