



SHAKAMBHARI ISPAT & POWER LTD.

(Formerly known as Ess Dee Aluminium Ltd.)

CIN: U24109WB2004PLC170941 | PAN: AABCE3113G | GSTIN: 19AABCE3113G320

Ref: -SIPL-RUKNI/SMC/MoEF&CC/APR-2025 TO SEPT-2025

Date: 17.12.2025

To,

The Dy. Director General of Forest (DDGF)

GOI, MoEF&CC, Sub Office, Kolkata

IB-198, Salt Lake City, Sector-III, Kolkata - 700106

SUB: Six-Monthly Compliance Report to Environmental Clearance conditions (period April-2025 to September-2025) by M/s. Shakambhari Ispat & Power Limited (Formerly known as M/s. Bravo Sponge Iron Pvt. Limited), located at Vill-Mahuda, PO-Rukni, Dist- Purulia (WB)-723145

Ref: MoEF&CC EC File No:

1. J-11011/758/2009-1A-II (IND-I) dated 02/05/2024,
2. J-11011/758/2009-1A-II (I) Dated 05th November, 2020
3. J-11011/758/2009-1A-II (I) Dated 18th April, 2017

Dear Sir/Ma'am,

With reference to the subject, we are submitting herewith the Six-Monthly Compliance Report (Period Apr-2025 to Sep-2025) of M/s Shakambhari Ispat & Power Limited (Formerly known as M/s Bravo Sponge Iron Private Limited), located at Vill- Mahuda, P.O- Rukini, P.S- Para, Dist- Purulia as per the directives of Ministry of Environment Forest and Climate Change, Govt. of India. Point wise compliance status report along with latest environment monitoring data is enclosed for your kind perusal.

It is pertinent to mention that company's name has been changed and EC, CTE & CTOs has been transferred from M/s Bravo Sponge Iron Private Limited to M/s Shakambhari Ispat & Power Limited. Information of this change with copy of transferred EC has already been communicated to your good office.

Hard copy of the report has not been sent following MoEFCC Eastern Regional Office 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 & with regards.

Yours faithfully,

For Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly M/s Bravo Sponge Iron Pvt. Limited)

(Authorized Signatory)

Encl: as above

Copy to:

The Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur Satellite Township Project, Dr. B.C. Roy Road, PO- Dakshin Dhadka, Asansol-713302 Dist.-Paschim Bardhaman (WB)



Regd. Office: "Diamond Prestige", 41A, A.J.C. Bose Road, 8th Floor # 801, Kolkata, West Bengal-700017, India.

Unit Madandih: Vill. - Madandih, P.O. - Bartoria, Dist. - Purulia, West Bengal - 723121, India.

Unit Rukni: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Dist. - Purulia, West Bengal - 723145, India.

Unit Mogra: Vill. & P.O. - Hoera, P.S. - Mogra, Dist. - Hooghly, West Bengal - 712147, India.

Phone: 033 6625 5252 | **E-mail:** info@shakambhargroup.in | **Website:** www.shakambhargroup.in

SHAKAMBHARI ISPAT & POWER LIMITED

(Formerly known as Bravo Sponge Iron Pvt. limited)

UNIT-RUKNI

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

MoEF &CC. No: File No: J-11011/758/2009-1A-II (IND-I) date 02/05/2024

MoEF &CC. No: File No: J-11011/758/2009-1A-II (I) dated 05/11/2020

MoEF &CC. No: File No: J-11011/758/2009-1A. II (I), Dated: 18/04/2017

COMPLIANCE PERIOD:

APRIL-2025 TO SEPTEMBER-2025

PROJECT LOCATION:

Village-Mohuda, PO-Rukni, P.S.-Para, Dist.-Purulia (WB)-723145



Name of the Project	: SHAKAMBHARI ISPAT & POWER LIMITED, UNIT-RUKNI (Formerly known as Bravo Sponge Iron Pvt. Limited)
Environmental Clearance Ref No.	: F. No: J-11011/758/2009-IA-II(IND-I) Date 02/05/2024, F. No.: J-11011/758/2009-IA-II(I) dated 05 th November, 2020 and F. No.: J-11011/758/2009-IA, II(I), Dated: 18 th April, 2017
Period of Compliance Report	: April-2025 to September-2025

Name of M/s Bravo Sponge Iron Private Limited has been changed to M/s Shakambhari Ispat & Power Limited (SIPL), accordingly EC and CTE/CTOs has been transferred in the name of SIPL. Information of this change with copy of transferred EC has already been communicated to MoEF&CC sub office Kolkata (Copy of information letter along with EC and CTE/CTO transfer letter obtained from MoEF&CC and WBPCB is attached as Annexure-1

MoEF&CC, EC F. No J-11011/758/2009-IA-II(IND-I) Date 02/05/2024		
Sl. No.	CONDITIONS	COMPLIANCE STATUS
A- SPECIFIC CONDITION:		
I.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted.
II.	The project proponent shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	It is being/shall be complied. The recommendations made in the EIA/EMP for environmental management and risk mitigation measures related to existing project being complied, and for proposed project it shall be implemented with implementation of projects Fr existing project, environmental protection measures like dust extraction system, and bag filters, installation of fixed water sprinklers, ESPs are installed and effectively operated. Water sprinkling on roads by mobile water tanker inside and outside of the plant premises has been carried out during dry weather condition on regular basis. No industrial waste water being discharged outside the factory premises. Greenbelt development and its maintenance, gap filling has been done on regular basis. Risk mitigation measured has been adapted followed under close monitoring of safety department. Necessary PPEs being provided to working personnel.
III.	The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.	SIPL is committed to adapt best available technologies available in the market and accordingly initiative has been taken by the company project team. Our efforts are/shall be to reduce the carbon foot print with best possible efforts and it is being/shall be incorporated at initial stage of project

		implementation and discussions with technology providers. Our effort is to maintain dense afforestation and its proper maintenance as a major carbon sequestration resource. Company has installed 507 kWp solar panel for generation of renewable energy. It is working effectively. Battery operated Cars (Electric Vehicle) are introduced to reduce the diesel & petrol consumption.
IV.	The PP shall complete the process of land acquisition and conversion for industrial use.	Noted. It shall be complied.
V.	Mahuda Village (0.01.km, E), Kashberiya Village (0.25 km, SE), Rukni Village (0.5 km), and School is at 0.13 km along with other sensitive areas within the study area of the project site. Proponent shall take appropriate environmental safeguard measures to minimise the impact on the habitation of the locals. PP needs to strengthen green belt all around the plant area to reduce the dust pollution. The PP shall also include some of these locations in its environmental monitoring programme.	It is being/shall be complied as per direction with implementation of proposed project. Dense plantation towards Mahuda, Kashberia and all along the plant boundary wall facing towards Rukni village has been done and it shall be continued in proposed project area for protection against dust pollution. Mobile water tanker being deployed for water sprinkling on roads in the surrounding of the project during dry weather condition. Maduda and Kashiberia adjacent the project has taken under environmental monitoring programme. Latest Ambient air quality monitoring report is attached as Annexure-2.
VI.	Kumra Jora Nala is at 0.03 km in the West along with other water bodies within the study area of the project site. A robust and full proof Drainage Conservation scheme to protect the natural drainage and its flow parameters; along with Soil conservation scheme and multiple Erosion control measures shall be implemented.	Noted It will be followed as per direction with implementation of project.
VII.	The total water requirement of 20,740 m ³ /day shall be met from DVC. PP shall obtain necessary permissions from the Competent Authority. Ground water shall only be used for domestic purpose.	Noted It shall be complied as per direction with implementation of new project.
VIII.	Three tier Green Belt shall be developed in at least 33% of the project area in a period of 2 years along the project site of adequate width and tree density shall not be less than 2500 per ha. Survival rate of green belt developed shall be monitored on periodic basis to ensure that damaged plants are replaced with new plants in the subsequent years. PP shall also develop greenbelt in the form of shelter belt comprising of total of 6 rows of 2x2 m plantation with tall trees & broad leaves with thick canopy along with windshield inside the plant premises to act as green barrier for air pollution & noise levels towards sensitive areas nearby project site. Compliance status in this regard, shall be submitted to concerned Regional Office of the MoEF&CC.	Noted. Green belt development work has been started and it shall be completed as per direction parallel to land acquisition and construction of boundary wall. The construction for the proposed project units has been started. 1x1000TPD DRI Kiln has been installed and is under very initial stage of operation. It will be followed as per direction with implementation of project. Compliance status in this regard, shall be submitted to Regional Office/Sub Office of the MoEF&CC with six monthly compliance report.

IX.	All the commitments made towards socio-economic development of the nearby villages shall be satisfactorily implemented. The action plan based on the social impact assessment study of the project as per the EMP in accordance to the Ministry's OM dated 30.09.2020 amounting to Rs. 85 Crores shall be strictly implemented and progress shall be submitted to the Regional Office of MoEF&CC.	Noted. Initiative for implementation of commitments made towards socio-economic development of the nearby villages has been taken by the company and it shall be implemented as per direction with implementation of project.
X.	PP shall undertake village adoption programme as committed and implement the action plan to develop them into a model village.	BSIPL has started the developmental activities in the village proposed to be adapted and it shall be implanted with due priority. Company has dedicated team to look after the welfare and developmental activities in the surrounding of the plant. The construction for the proposed project has not started yet. It will be followed as per direction with implementation of new project.
XI.	PP shall obtain approval of Site-Specific Wildlife Management Plan. The recommendations of the approved Site-Specific Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Wildlife conservation plan is yet to be approved from competent authority, it shall be implemented in consultation with State Forest Department and implantation report shall be submitted to the Regional Office of the MoEF&CC.
B- GENERAL CONDITIONS:		
I.	Statutory compliance:	
i.	The Environment Clearance (EC) granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to approvals/ consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/ Subordinate legislations, etc., as may be applicable to the project.	Noted. It shall be adhered.
ii.	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.	Noted & agreed
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as 06 Nos. Continuous Ambient Air Quality Station (CAAQMS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and	SIPL have already installed continuous emission monitoring system in all exiting process stacks and it is connected to the CPCB and SPCB servers and now it has been registered and in the process of shifting to new OCEM portal launched CPCB. Continuous Ambient Air Quality Station (CAAQMS) system shall be installed with the implementation of new project.

	calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Stack emission status and Ambient Air Quality Monitoring being done periodically through NABL accredited laboratory to evaluate status of stack emission & Ambient Air Quality. Latest ambient air quality monitoring report are attached as Annexure -2
ii.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NO _x in reference to SO ₂ and NO _x emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120° each), covering upwind and downwind directions.	It is being complied and monitoring reports attached as Annexure-2
iii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	It is being complied and monitored through NABL accredited laboratory. Monitoring reports at different locations is attached as Annexure-3
iv.	Sampling facility at process stacks shall be provided as per CPCB guidelines for manual monitoring of emissions.	It has been complied for existing project. Sampling facility at process stacks has been provided as per CPCB guidelines for manual monitoring of emissions and shall be complied for expansion project.
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	For Existing plant, Air pollution control devices viz. ESPs and bag filters along with dust extraction and water sprinkling system for dust suppression have been installed and efficiently operated to control emission level well within the norms. It shall also be implanted for implementation project units.
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	It is being/shall be compiled for existing and proposed expansion project.
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	Existing plant roads and shop floors being cleaned on regular basis. Office vacuum cleaner are available. Mobile or stationery vacuum cleaners shall be provided with implementation of new project.
viii.	Ensure covered transportation and conveying of raw material to prevent spillage and dust generation. The project proponent uses leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.	All raw material transportation vehicle being/shall be covered with tarpaulin while transportation of raw materials to prevent any kind of spillage.
ix.	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	It is being/shall be complied.

x.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	It has been implemented in existing project, however the construction for the proposed project has not started yet. It shall also be followed as per direction with implementation of new project.
xi.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Proper water sprinkling being done over stock piles of raw materials, tall plantation has been done to act as wind shelter fence and barrier against dust emission from the yard. It shall be implanted with implementation of new projects as per direction.
xii.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	It has been/Will be complied.
xiii.	Pollution control system in the plant shall be provided as per the CREP Guidelines of CPCB.	It is Being/shall be followed.
xiv.	The project proponent shall adopt the Clean Air practices like mechanical collectors, wet scrubbers, fabric filters (bag houses), electrostatic precipitators, combustion systems (thermal oxidizers), condensers, absorbers, absorbers, and biological degradation. Controlling emissions related to transportation shall include emission controls on vehicles as well as use of cleaner fuels. Sufficient numbers of additional truck mounted Fog/Mist water cannons shall be procured and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	It has been adapted for existing plant units. As per direction, it will also be followed for coming new project.
xv.	Bag filters shall be cleaned regularly and efficiency of bag filter system shall be monitored at regular intervals.	Company has technically qualified team for each & every separate division for operation, maintenance & monitoring of the bag filter efficiency and other pollution control devices on regular basis. It shall also be implanted with implementation projects.
xvi.	Water Sprinklers/Water mist system shall be installed near raw material yards, operational units and other strategic locations to control fugitive emissions from the plant.	It is being complied for existing plant. As per direction, it will also be followed for coming new project units.
xvii.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm ³ and measures shall be undertaken as per the submitted action plan. Efficient Air monitoring equipment shall be installed.	Already installed (existing) projects complies with emission standards as stipulated in previous EC and in CTO by West Bengal Pollution Control Board. It is being/shall also be complied for coming new project units. Company is in the process of upgrading the pollution control devices of old units installed with previous recommended norms so as to maintain the latest prescribed limit of less than 30 mg/Nm ³ .
xviii.	Following additional arrangements to control fugitive dust shall be provided: a. Fog / Mist Sprinklers at all on bulk raw material storage area (at the transfer points)	It is being complied for existing plant. Sufficient nos. of fixed type water sprinklers for dust suppression in raw material & product handling areas along the conveyor, finished product house area, cooler discharge, Coal Handling Plant (CHP), along with Kiln

	like Iron Ore, Coal and for Fly Ash and similar solid waste storage areas. b. Proper covered vehicle shall be used while transport of materials. c. Wheel washing mechanism shall be provided in entry and exit gates with complete recirculation system.	axis Coal, Iron Ore, Fly Ash handling area and all other dust prone areas. Installation of Fog/mist sprinklers shall also be done in existing & units with expansion project at required points. Materials being transported in covered vehicle. Wheel washing mechanism shall be provided at suitable place with upcoming new project as per direction
xix.	Briquetting and Jigging plant shall be installed in Ferro Alloys Plant.	Noted, it shall be complied
xx.	The PP shall minimize the evaporation losses in jigging operation to less than 10% using suitable advanced process.	Noted, efforts shall be made to minimise the evaporation losses during jigging operation after implementation.
xxi.	The 4 th hole extraction system shall be provided in the Sub Merged Arc Furnaces and EAF.	It shall be implemented with upcoming new project.
xxii.	Industry is going to use silica quartz in large quantities and going to produce Silico Manganese and Ferro Silicon alloy steel. Therefore, it is necessary to control silica/quartz exposures at production Departments, not only emission norms as per Indian Factories Act. The permissible limit for silica/quartz should be within 10 mg/m ³ for total dust as per Indian Factories Act. Therefore, it is recommended to monitor personal and area exposures for silica quartz dust in the process plants.	Noted. As per direction, it will be followed for coming new project.
xxiii.	Dry quenching (CDQ) system shall be installed along with power generation facility from waste heat recovery from hot coke	Noted. As per direction, it will be followed with installation of new project.
xxiv.	Facilities for spillage collection shall be provided for coal and coke on wharf of coke oven batteries (Chain conveyors, land based industrial vacuum cleaning facility). Land-based APC system shall be installed to control coke pushing emissions.	Noted. It shall be implemented with upcoming coke oven project.
xxv.	Monitor CO, HC and O ₂ in flue gases of the coke oven battery to detect combustion efficiency and cross leakages in the combustion chamber.	Noted. It shall be implemented with upcoming coke oven project.
xxvi.	Vapor absorption system shall be provided in place of vapour compression system for cooling of coke oven gas in case of recovery type coke ovens.	Noted. Proposed coke oven plant is non-recovery type and coke oven gas shall be used in WHRB for captive power generation.
xxvii.	The coke oven gas shall be subjected to desulphurization if the sulphur content in the coal exceeds 1%.	Noted. It shall be followed.
xxviii.	Provide Low NO _x burners as primary measures and SCR /NSCR technologies as secondary measure to control NO _x emissions.	Noted. It shall be implemented The construction for the proposed project has not been started yet.
xxix.	The emission norms applicable for the cement plant shall be adhered to.	Noted
xxx.	Dioxin and Furan monitoring shall be carried out once in six months at cement kiln stack.	It shall be complied when cement plant implemented. The construction for the proposed project has not started yet.

xxxi.	DeSOx system shall be provided dry type. NOx level shall be maintained below 600 mg/Nm ³ by using best available technology.	Noted, it shall be complied.
xxxii.	Petcoke dosing shall be controlled automatically to control SO ₂ emission from chimney within the prescribed limits.	Noted. It shall be complied.
xxxiii.	PP shall identify the Source of fluoride emissions and action plan to mitigate the same shall be implemented.	Noted, fluoride emissions source shall be identified and accordingly mitigation plan shall be implemented. As of now no fluoride emissions unit in operation.
xxxiv.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	It shall be followed with installation cement plant. The construction for the proposed cement project has not started yet.
xxxv.	During operational phase at Captive Power Plant, Action Plan to monitor coke/coal dust exposures in different process plants using personal and area air samplers and to compare with permissible limits as per Indian Factories Act, 1948 shall be implemented.	Noted. It shall be complied. Fugitive emission monitoring being done on regular basis in existing plant operation.
xxxvi.	The coal dust should be monitored at coal unloading, crushing, furnace areas and should be within 2 mg/m ³ , respirable dust fraction containing less than 5% quartz as per Indian Factories Act, 1948.	It is being/shall be complied. Fugitive emission monitoring being done on regular basis in existing plant operation. To evaluate the status in existing plant operation and it shall be implemented during upcoming proposed expansion too.
xxxvii.	Ductile Iron (DI) plant shall have the following provisions: a. Bag filter for Zn coating and Mg converter area. b. Wet scrubbers in paint and bitumen coating area. c. Bag Filter in Cement lining area. d. PTFE dipped bags shall be used in the plant. e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm ³ . f. ETP with recycling facility shall be included.	The construction for the proposed project has not started yet. As per direction, it will be followed for proposed new project. Project of Ductile Iron (DI) plant not started yet.
xxxviii.	Online stack monitoring system for IF and RHF shall be installed and monitoring report shall be submitted to the concerned Regional Office of the MoEF&CC along with the six-monthly compliance report.	Noted It will be implemented.
xxxix.	Low NOx Burners will be installed at Reheating Furnace for control of Gaseous emissions generated while using PNG.	It shall be complied with implementation of proposed project and reheating furnaces.
III. Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time and connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment	Company has adapted recycle and reuse practice and no industrial effluent being discharged outside the factory premises. This practice shall also be adapted for new expansion. Continuous effluent quality monitoring system shall be installed as per direction.

	(Protection) Act, 1986 or NABL accredited laboratories.	
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre- and post-monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	It is being/shall be complied for coming new project as per direction.
iii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Noted It is being complied for existing plant. As per direction, it will be followed for coming new project.
iv.	Water meters shall be provided at the inlet to all unit processes in the plants.	It is being complied for existing plant. As per direction, it will be followed for coming new project.
v.	The project proponent shall make efforts to minimise water consumption in the plant complex by segregation of used water, practicing cascade use and by recycling treated water.	It is being complied/shall be complied for coming new project as per direction. Recycle and reuse practice has been adopted and no industrial effluent being discharged outside the factory premises. This practice shall also be adapted for new expansion.
vi.	The proposed project shall be designed as "Zero Liquid Discharge" Plant. ETP shall be installed and there shall be no discharge of effluent from the plant. Domestic effluent shall be treated in Sewage Treatment Plant. Suitable measures shall be adopted for sewage water handling to ensure no contamination of any kind of water body.	It is being complied for existing plant. As per direction, it will be followed for coming new project. STP shall be installed for the treatment of domestic sewage effluent and treated effluent shall be used for greenbelt/green cover development.
vii.	All stockyards shall have impervious flooring and shall be equipped with water spray system for dust suppression. Stock yards shall also have garland drains and catch pits to trap the run off material and shall be implemented as per the action plan submitted in EIA/EMP report.	Noted It is being complied and impervious flooring has been made for existing plant. As per direction, it will be followed for coming new project.
viii.	Rain water harvesting shall be implemented to recharge/harvest water as per the action plan submitted in the EIA/EMP report.	Noted. It is being complied for existing plant and it shall also be complied with proposed project implementation.
ix.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.	Noted. It shall be implemented.
x.	The project proponent shall provide appropriate ETP for effluents discharged from coke oven and by-product to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to Coke oven plants) as amended from time to time.	Noted. Non-recovery type coven plant is proposed therefore no effluent discharged from coke oven shall be made. Water used for coke quenching shall be recycled and reused.
xi.	Treated water from ETP of COBP shall not be used for coke quenching.	Noted. Proposed coke oven plant is of non-recovery type; therefore, no such effluent generation is foreseen.
xii.	Air Cooled condensers shall be used in the captive power plant.	Noted. It has been implemented in existing unit of CPP and shall also applied for proposed expansion project.
IV. Noise monitoring and prevention		
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and	Noted

	Control) Rules, 2000 and amendments thereof, and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	It is being compiled for existing plant. As per direction, it will be followed for coming new project.
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	It is being compiled for existing plant. As per direction, it will be followed for coming new project.
iii.	PP shall identify extreme hot areas through heat stress survey as well as noise monitoring within process plants to ensure that workers not exposed above 90 dBA levels as per Factories Act, 1948.	It is being compiled for existing plant. Heat stress analysis as well as noise monitoring has already been carried out and reports submitted to your office with earlier six-monthly compliance report. Base on analysis report, PPEs being provided to employees working in hot zone and high noise exposure areas. As per direction, it will be followed for coming new project.
V. Energy Conservation measures		
i.	Use torpedo ladle for hot metal transfer as far as possible. If ladles not used, provide covers for open top ladles.	Noted, it shall be complied as far as possible.
ii.	Restrict Gas flaring to < 1%.	Noted. It shall be followed with implementation of Blast Furnace unit.
iii.	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly;	It is being compiled for existing plant. Company has installed 507 kWp solar panel for generation of renewable energy. It is working effectively. Best possible efforts shall be made to implement the direction with proposed expansion project.
iv.	Provide LED lights in their offices and residential areas.	It is being compiled for existing plant. As per direction, it will be followed for coming new project.
v.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	It shall be complied
vi.	Practice hot charging of slabs and billets/blooms as far as possible.	It is proposed and shall be complied with best possible efforts. Hot charging of billets has been started from SMS to existing rolling mills
vii.	Ensure installation of regenerative type burners on all reheating furnaces.	Noted. Installation of regenerative type burners on all reheating furnaces shall be ensured.
viii.	Blast Furnaces shall be equipped with Top Recovery Turbine, dry gas cleaning plant, stove waste heat recovery, cast house and stock house ventilation system and slag granulation facility.	Noted. The construction for the proposed Blast furnace unit is not started yet. As per direction, it will be followed.
ix.	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.	Noted The construction of Coke Oven project has not started yet. As per direction, it will be followed.
x.	The project proponent shall provide waste heat recovery system on the DRI Kilns.	It is being compiled for existing plant. As per direction, it will be provided with proposed DRI units also.
xi.	The dolochar generated shall be used for power generation.	It is being compiled for existing plant. As per direction, it will be followed for coming new CPP project.
xii.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water	It is being/shall be compiled.

	shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	
xiii.	The PP shall implement the guidelines on sponge iron plants issued by the CPCB/SPCB in this regard.	It is being compiled for existing plant. As per direction, it will also be followed for coming sponge iron project units.
xiv.	The project proponent makes efforts to achieve power consumption less than 65 units/tonne for Portland Pozzolona Cement (PPC) and 85 units/tonne for Ordinary Portland Cement (OPC) production and thermal energy consumption of 670 Kcal/Kg of clinker.	Noted. The construction for the proposed cement project has not started yet. As per direction, it shall be followed with best possible efforts.
xv.	Maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.	Noted. Efforts shall be made to maximize utilization of fly ash, slag and sweetener in cement blend as per BIS standards.
xvi.	Maximize utilization of alternate fuels and Co-processing to achieve best practice norms.	Noted. Efforts shall be done to comply with directions.
xvii.	Waste heat recovery system shall be provided for kiln and cooler.	It is being compiled for existing plant. As per direction, it will be followed for coming new project.
VI. Waste management		
i.	Oil Collection pits shall be provided in oil cellars to collect and reuse/recycle spilled oil.	Noted. It has been complied for existing plant. As per direction, it will be followed for coming new project.
ii.	Kitchen waste shall be composted or converted to biogas for further use.	Noted. It is being/shall be compiled.
iii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	Noted it shall be complied.
iv.	The Plastic Waste Management Rules 2016, inter-alia, mandated banning of identified Single Use Plastic (SUP) items with effect from 01/07/2022. In this regard, CPCB has issued a direction to all the State Pollution Control Boards (SPCBs)/Pollution Control Committees (PCCs) on 30/06/2022 to ensure the compliance of Notification published by Ministry on 12/08/2021. The technical guidelines issued by the CPCB in this regard is available at https://cpcb.nic.in/technical-guidelines-3/ . All the project proponents are hereby requested to sensitize and create awareness among people working within the Project area as well as its surrounding area on the ban of SUP in order to ensure the compliance of Notification published by this Ministry on 12/08/2021. A report, along with photographs, on the measures taken shall also be included in the six-monthly compliance report being submitted by the project proponents.	It is being compiled for existing plant. As per direction, it will be followed for coming new project. Use of single use plastic is completely banned inside the plant premises. Our EHS personnel are regularly creating awareness among people working within the factory premises to avoid the Single Use Plastic (SUP) items. Further campaigning against SUP shall be conducted for more effective compliance of guidelines and Notification dated 12/08/2021 Of the Hon'ble Ministry.
v.	A proper action plan must be implemented to dispose of the electronic waste generated in the industry.	It is being/shall compiled as per direction. electric & electronic waste being sold to authorized vendor/recycler.
vi.	Solid waste utilization-	Noted

	a. PP shall install a slag crusher to convert steel slag into aggregate for use in construction industry, fine sand for use as flux in steel plant, sand in brick making and as lime in cement making. b. PP shall recycle/reuse solid waste generated in the plant as far as possible c. Used refractories shall be recycled as far as possible.	It is being complied/shall be implement for proposed expansion and best possible efforts shall be made to comply with directions.
vii.	SMS slag after metal recovery in waste recycling facility shall be conditioned and used for road making, railway track ballast and other applications. The project proponent shall install a waste recycling facility to recover metallic and flux for recycle to sinter plant. The project proponent shall establish linkage for 100% reuse of rejects from Waste Recycling Plant.	Noted It is being followed for existing plant and it shall also be followed for proposed SMS units under new expansion project.
viii.	Carbon recovery plant to recover the elemental carbon present in GCP slurries for use in Sinter plant shall be installed.	Noted. The construction for the proposed Blast Furnace project has not started yet. As per direction, it will be followed for coming new project.
ix.	Waste recycling Plant shall be installed to recover scrap, metallic and flux for recycling to sinter plant and SMS.	Noted The construction for the proposed project has not started yet. As per direction, it will be followed and waste recycling Plant shall be installed with expansion project.
x.	In case of Non-Recovery coke ovens, the gas main carrying hot flue gases to the boiler, shall be insulated to conserve heat and to maximise heat recovery.	Noted. WHRB shall be installed to utilise coke oven gas for captive power generations.
xi.	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).	It is not applicable for this company because of SIPL has proposed non-recovery type coke oven.
VII. Green Belt		
i.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration by trees.	Noted. It is being compiled for existing plant. As per direction, it will be followed and prepared for new expansion project.
ii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon budgeting/ balancing, carbon sequestration activities and carbon capture, use and storage and offsetting strategies. Further, the report shall also contain time bound action plan to reduce its carbon intensity of its operations and supply chains, energy transition pathway from fossil fuels to Renewable energy etc. All these activities/ assessments should be measurable and monitor able with defined time frames.	Noted. It shall be complied.

iii.	Greening and Paving shall be implemented in the plant area to arrest soil erosion and dust pollution from exposed soil surface.	It is being compiled for existing plant. As per direction, it shall also be followed with implementation of new expansion project.
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted. It is implement for existing plant. As per direction, it shall also be extended to new expansion project.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms.	It is being compiled for existing plant. As per direction, it will also be followed for coming new projects.
iii.	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.	Noted. It shall be complied.
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Noted. It is being complied/shall be extended up to proposed expansion project unit also. Annexure-4
IX. Environment Management		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F. No. 22-65/2017-IA.III dated 30/09/2020. As part of Corporate Environment Responsibility (CER) activity, company shall adopt nearby villages based on the socio-economic survey and undertake community developmental activities in consultation with the village Panchayat and the District Administration as committed.	Noted. It shall be complied as per directions.
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	SIPL has environmental policy and standard operating procedure has been implemented to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions. The Company has also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. There is a reporting system in place to deal with any non-compliance/violation of environmental norms.

iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.	An environmental cell has been set up under the supervision of senior executive to look after the day to day activities pertaining to environment & pollution control issues of the company. Hierarchical system/ Administrative order of the environmental cell is follows: <pre> graph TD CMD[CMD] --> JTMD[JT. MD] JTMD --> HES[Head - Environment Health & Safety] JTMD --> UH[Unit Head] HES --> Env[Environment] HES --> Health[Health] HES --> Safety[Safety] UH --> OH[Operation Head] Env --> EO[Ens Officer/Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] </pre>
iv.	Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&CC.	It shall be complied. For existing plant regular monitoring of stack emission through NABL accredited third party laboratory being conducted periodically to evaluate the emission level of pollution control systems i.e. ESPs and bag filters. Emission status of pollution control system also being monitored by monitoring team of West Bengal Pollution Control Board (WBPCB) time to time. Our technical team keep on watch over the performance of pollution control equipment on regular basis and immediate corrective action being taken on abnormalities observed if any. Preventive maintenance of pollution control system also being done with scheduled shutdown of plant operations.
X. Miscellaneous		
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Complied. Newspaper advertisement has been done in Arthik Lipi Kolkata Business Page No.7 Date 7th May 2024 and the Echo India Kolkata 7th May-24 at page No. 5.
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	It is complied.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of	Noted. It is being/shall compiled on half-yearly basis as per direction.

	monitored data on their website and update the same on half-yearly basis.	
iv.	The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	It is being compiled for existing plant. As per direction, it will be followed for coming new expansion project.
v.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Noted. It shall be complied with.
vi.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	Noted. Six-monthly compliance report being submitted to MoEF&CC Sub Office Kolkata on regular basis. Direction shall be complied.
vii.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	Noted It is being compiled for existing plant. Environmental Statement for financial year 2024-25 in Form-V has been submitted to the concerned State Pollution Control Board in copy to MoEF&CC Sub Office Kolkata. As per direction, it will be followed for coming new expansion project.
viii.	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted. It is being/shall be complied.
ix.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public Hearing and also that during their presentation to the Expert Appraisal Committee.	Noted.
x.	The recommendations of the approved Site-Specific Wildlife Management Plan (in case of involvement of Schedule-I species) shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report to the concerned Regional Office of the MoEF&CC.	Noted. It shall be complied
xi.	The PP shall put all the environment related expenditure, expenditure related to Action Plan on the PH issues, and other commitments made in the EIA/EMP Report etc. in the company web site for the information to public/public domain. The PP shall also put the information on the leftover funds allocated to EMP and PH as committed in the	Noted. Directions shall be complied.

	earlier ECs and shall be carried out and spent in next three years, in the company web site for the information to public/public domain.	
xii.	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).	Noted 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).
xiii.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
xiv.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xv.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted
xvi.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.	Noted. It shall be adhered.
xvii.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted

**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05 th November, 2020		
S No	Conditions	Compliance Status
A. Specific conditions		
i.	The 95 TPD DRI Unit shall be upgraded to 100 TPD with installation of 2 MW WHRB.	Noted. It shall be implemented.
ii.	All dust generated and collected from the plant roads, floors and bag houses/ESPs shall be recycled to Pellet Plant.	It is being complied. The dust generated from material handling & operational areas i. e. floors, bag houses, ESPs etc. are collected and blended with input raw material of Pellet Plant for the reprocess.
iii.	CPP shall meet all norms for PM, SO ₂ and NO _x emissions. CEMS shall be integrated with the plant control and the monitored data shall be used for process control.	CEMS has already been installed and integrated with process control system where monitoring data being displayed and considered for process control.
iv.	Producer Gas Plant shall be closed circuit type without any generation of phenolic water. Tar sludge and tar shall be handled in environmentally sound manner as per HW Rules, 2016.	It is being complied. Generated Tar and sludge from producer gas being stored in properly isolated storage system. It is being/ shall be used as Fuel in the Kilns/alternately sold to authorized re-processors approved by SPCB / CPCB. Form-10 attached as Annexure -5
v.	Only DVC water shall be used and abstraction of ground water is not permitted.	It is being/shall be adhered accordingly. The company takes water from Damodar Valley Corporation (DVC). No ground water being extracted.
vi.	100% water consumed annually shall be recharged through water harvesting.	Rain water harvesting ponds have been developed within the plant premises and outside the factory premises in the village for natural recharge of ground water. Further, company is in the process of adapting ponds in nearby areas for more rain water harvesting and natural recharge. The company has developed 02 nos. pond in Kashiberia and Govindpur village for rain water harvesting.
vii.	A sum of Rs. 3.8125Cr shall be allocated to CER Activities as per list furnished and all CER Activities shall be completed within three years.	CER activities are under implementation as mentioned in the EIA/EMP report. Company has already deployed mobile water tanker for water sprinkling inside the plant and also on village roads and the roads connecting to the plant. Drinking water supply to villages Solar lighting system in the village Mahuda & Kashiberia total 10 nos. Construction of health check-up Centre has been completed at Mahuda-Kashiberia & Gobindapur village and it is operational with suitably qualified medical staff and a visiting doctor.

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
		The company has developed 02 nos. pond in kashiberia and in Govindpur village for rain water harvesting Dress changing room at pond bathing site free medical checkup for local village etc.
viii.	All roads inside the plant shall be paved, vacuum cleaners shall be provided to clean roads and shop floors.	Most of the internal roads in the existing plant area are concreted/ paved and concreting of roads in project area is under active progress. Cleaning of the roads being done on regular basis. Some photographs of RCC roads are enclosed as Annexure-6
ix.	Water spray systems shall be included to control fugitive dust from RM stockpiles.	Water spraying facility has been provided in raw material handling area to control the fugitive dust emission. The raw material containing fine dust being covered with tarpaulin. Water spraying being done on Raw Material stockpiles.
x.	40% green belt shall be provided using 2500 trees per ha around the plant boundary.	It has been complied. Total plant area inclusive of previous & current EC is 31.73Ha out of which 12.6Ha land has been covered with approx. 3100 plants of different indigenous species. Proper maintenance of plantation/green cover being carried out and gap filling also being done as per requirement to maintain desired level of plant density. Some photographs are attached as Annexure-7
xi.	85-90% rolling shall be done as hot charged. Use of LDO shall be practiced in RHF whenever it is run. FO and Pulverized coal shall not be used.	It shall be complied as per direction after implementation of rolling mill project.
xii.	Air cooled condensers shall be used.	Complied. Air cooled condensers are already installed.
xiii.	PM emission from the stacks shall be less than 30mg/Nm ³ .	Project installed under approval of current EC complies the emission level of less than 30mg/Nm ³ . It shall also be complied with to be implemented projects. Existing projects complies with emission standards as stipulated in previous EC and by West Bengal Pollution Control Board. However, company is in the process of upgrading the pollution control devices installed with old units with previous stipulated norms so as to comply with emission level of less than 30mg/Nm ³ . Latest stack monitoring reports of existing running project are attached as Annexure-8
xiv.	Energy conservation measures like use of VFD; Slip power recovery etc. shall be adopted.	VFD has already provided at required location like ID/FD fan/high power consuming motors etc. for slip power recovery and it shall also be adapted with

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

Page | 17



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
		upcoming implementation projects.
B. General conditions		
I. Statutory compliance:		
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/construe to approvals/consent/ permissions etc., required to be obtained or standards/conditions to be followed under any other Acts/Rules/Subordinate legislations, etc., as may be applicable to the project.	Noted. It is being/shall be adhered. After getting EC vide F. No.: J-11011/758/2009-IA-II(I) dated 05 th November, 2020, CTE for the project was obtained from West Bengal Pollution Control Board (WBPCB) and with implementation of projects CTO taken for implemented project(s) and plant is operating with valid CTO(s).
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission as well as Continuous Ambient Air Quality Station (CAAQS) for monitoring AAQ parameters with respect to standards prescribed in Environment (Protection) Rules 1986 as amended from time to time. The CEMS and CAAQMS shall be connected to SPCB and CPCB online servers and calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Online Continuous Emission Monitoring System (OCEMS) have already been installed with stacks of DRI, AFBC boiler & pellet plant stack and monitored data being remitted to CPCB & SPCB through online server. Company has also registered with new CEMS portal launched by CPCB and data transmission with new portal is in the process of activation. Ambient Air Quality Monitoring (AAQM) being done periodically through NABL accredited agency. Latest Ambient Air Quality Monitoring reports are attached as Annexure-2
ii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Fugitive emissions in plant premises being monitored by NABL accredited laboratory on regular basis. Last work zone monitoring report is attached as Annexure-3



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
iii.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	Air Pollution Control (APC) systems have been installed like bag filters and ESPs for an effective control of dust emissions from vulnerable sources. Dust extraction system has been provided at dust generation points attached with bag filter units for cooler discharge, intermediate bin, product house, separation house and PCI unit. Fixed type water sprinklers are installed 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 to control the fugitive dust emissions. SIPL have deployed mobile water tankers for dust suppression on the road and minimizing fugitive emissions.
iv.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	It is complied. Leakage detection and mechanized bag cleaning facilities are provided. Functioning of bag filters being monitored by technically skilled manpower and observations noticed being promptly attended.
v.	Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	It is being complied. Iron ore fines collected from pollution control devices and ground level working platform being collected and used in pellet plant whereas coal fines used for captive power generations.
vi.	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation.	It is being/shall be complied. Covered transportation of raw materials being done to prevent spillage and dust generation.
vii.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Fume extraction system has been provided attached with bag filter and stack. Stack monitoring and work zone monitoring report is attached as Annexure-8 & 3
viii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Proper water sprinkling over stock piles of raw materials being done on regular basis to prevent fugitive emission due to wind pressure. Stock piles are also being covered for providing proper wind shelter, tall plantation has been done to act as wind shelter fence and barrier against dust emission from the yard.
ix.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Sufficient ventilation system is provided for proper air circulation and adequate air change for all tunnels motor houses, Oil Cellars. It shall also be provided with under implementation and to be implemented projects.
III.	Water quality monitoring and preservation	

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30 th May 2008; G.S.R 277 (E) dated 31 st March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online services and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Recycling and reuse practice being followed for return cooling water. Back wash/reject water from softener plant being collected in neutralization/homogenization tanks and reused for dust suppression & bed ash cooling after maintain the pH level. Effluent generated beyond the above if any being treated in ETP and used for green belt development and sprinkling for dust suppression. Adequate effluent recycling systems have made to recycle and reuse the industrial waste water. No industrial effluent being discharged outside the factory premises. Last Effluent monitoring report analyzed by NABL accredited laboratory is enclosed as Annexure-9 .
ii.	The project proponent shall monitor regularly ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment (Protection) Act, 1986 and NABL accredited laboratories.	Ground Water Quality has been monitored by NABL accredited laboratory. No ground water being extracted by the company, industrial effluent being administrated through plant drain network and recycle/reuse practice has been adapted, hence there is no scope of affecting the ground water level in the surrounding areas due to industrial activities. Latest ground water monitoring report, sample taken from Mahuda village is attached as Annexure-10
iii.	Adhere to 'Zero Liquid Discharge'.	It is being complied. Recycle and re-use practice has been adapted and no industrial effluent being discharged outside the factory premises.
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	At present for the treatment of domestic sewage effluent septic tank followed by soak pit facility has been provided. SIPL obtained new EC for expansion of existing project vide File No: J-11011/758/2009-IA-II(IND-I) dated 02/05/2024. Sewage Treatment Plant shall be installed at a suitable gradient with implementation of the projects.
v.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy rains and to check the water pollution due to surface run off.	Concreted raw material yard with garland drain has been constructed to check the water pollution due to surface run off. All such run off being collected in collection tank and reused in thickener of the pellet division.
IV. Noise monitoring and prevention		
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be	It is being complied. Latest Ambient & Work Zone Noise monitoring reports are enclosed as Annexure- 11& 12 .

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
	submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	
V.	Energy Conservation measures	
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	Energy conservation measure has already been adapted by providing LED lights in the offices to minimization of energy consumption. SIPL has installed 507 kWp solar panel for generation of renewable energy. It is operation effectively. Solar light has been installed in the village Mahuda & Kashiberia and in plant also under CER activity.
VI.	Waste management	
i.	Used refractories shall be recycled as far as possible.	Noted. Efforts being/shall be done to recycle the refractories as far as possible.
ii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	It is being complied. 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 as Annexure-13
iii.	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried and briquetted and reused in melting Furnaces.	Noted. It shall be complied with implementation of rolling mill project.
iv.	Kitchen waste shall be composted or converted to biogas for further use.	It is being complied. Kitchen waste being composted and used as manure for plantation.
VII.	Green Belt	
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	It has been complied. Total plant area inclusive of previous & current EC is 31.73Ha out of which 12.6Ha land has been covered with approx. 31500 plants of different indigenous species. Proper maintenance of plantation/green cover being carried out and gap filling also being done as per requirement to maintain desired level of plant density. Some photographs are attached as Annexure-7
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	It is complied. GHG report is attached as Annexure-14

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-1A-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan has been prepared based on different kind of operation process and is under execution. It shall also be implemented in upcoming projects. Risk & Disaster Management plan has already been submitted earlier with six monthly compliance report.
ii.	The project proponent shall carry out heat stress analysis for the workmen who work in high temperature work zone and provide Personal Protection Equipment (PPE) as per the norms of Factory Act.	Personal Protection Equipment (PPE) like safety shoes, hand gloves, face shield, apron etc. being provided to the workmen deployed in hot work zone. Heat stress analysis has been carried out and already submitted to MoEFCC sub office Kolkata.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance program of the workers being under taken on regular basis and records are maintained. Last health surveillance report attached as Annexure-4
IX. Corporate Environment Responsibility		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-1A.III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Environmental protection measures have been implemented for effective compliance recommended in EIA/EMP reports. SIPL has initiated to comply with socio-economic development activities in surrounding villages. As a part of CSR, we have developed health checkup center equipped with health checkup facilities and qualified medical staff, facilitating study materials to the school students (school bags and books, pencil box, water bottle etc.) of nearby villages. A primary school with study classes from standard 1 to 5 has been started in the village Kashberia. (Annexure-15). Drinking water supply in nearby Mahuda village is maintained on regular basis. Under enterprise social commitment providing jobs to the local people and contribution towards social causes and renovation of village ponds etc. Development of Bathing Ghats & Village Ponds for daily use of local villagers. A swing training center for woman empowerment has been started and the women from nearby villages are getting benefitted Annexure-16 Running charitable Dispensaries for local villagers and medical service including free doctor & medicines I

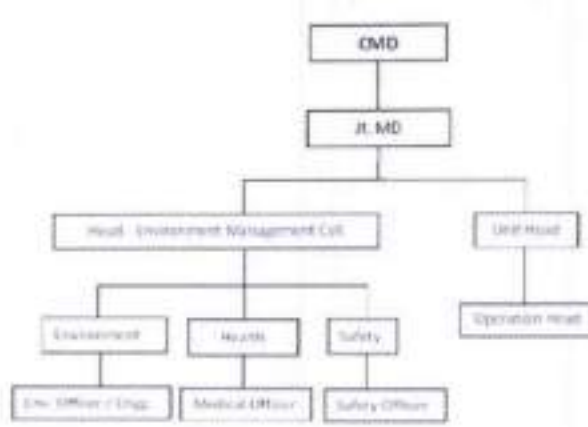
EC F. No.: J-11011/758/2009-1A-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
		Gobindapur & Keshiberia village. Distribution of school books & writing note books, lunch box, fruit etc. edible to school students in Kashi Beria Sarad Vakti Vadanta School. Mobile water tankers are deployed on the roads for dust suppression. Water sprinkling being done on nearby village roads also.
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/conditions. The company shall have defined system of reporting infringements/deviation/violation of the environmental/forest/wildlife norms/conditions and/or shareholders/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	It is compiled and already submitted, SIPL have implemented standard operating procedure to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions. SIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. SIPL have in placed reporting system for non-compliance/violation of environmental norms. Board of Directors  <pre>graph TD Board[Board of Directors] --> CMD[CMD] CMD --> JtMD[Jt. MD] JtMD --> EnvMgmt[Head, Environment Management Cell] JtMD --> OpHead[Opertion Head] EnvMgmt --> Envtment[Environment] EnvMgmt --> Health[Health] EnvMgmt --> Safety[Safety] Envtment --> EnvOff[Env. Officer / Envt] Health --> MedOff[Medical Officer] Safety --> SafetyOff[Safety Officer]</pre>
iii.	A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly report to the head of the organization.	An environmental cell has been set up under the supervision of Senior Executive to look after the day to day activities pertaining to environment & pollution control issues of the company.
X.	Miscellaneous	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it as least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	It has been complied Advertisement in newspaper has been done. Newspaper cuttings are attached as Annexure-17 Granted EC copy has been available as 'Environmental Orders' on the company website permanently http://shakambhariispat.com/environmental-orders

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	It is being complied. Compliance status being periodically uploaded on the company website http://shakambhariispat.com/environmental-compliance
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	It is being complied. Monitoring of criteria pollutants being carried out for PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and stack monitoring for PM, SO ₂ , and NO _x . Monitored data being displayed for public at main gate of the company and also on the company website with six monthly compliance report. Latest Ambient Air Quality monitoring and stack monitoring reports are enclosed in Annexure-2 & 8
v.	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and Climate Change at environment clearance portal.	It shall be complied.
vi.	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.	It is being complied on regular basis. The Environmental Statement for FY 2024-25 has been submitted and FY 2025-26 will be Submitted to WBPCB with copy to MoEF&CC Sub office Kolkata and the report being uploaded on the company website as per direction. http://shakambhariispat.com/environmental-compliance
vii.	The project proponent 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, commencing the land development work and start of production operation by the project.	On the basis of EC granted by Hon'ble MoEF&CC, SIPL has obtained CTE from West Bengal Pollution Control Board (WBPCB) and after that land development work and other project related activities were started. The date of financial closer is 17.11.2020 and land development work started w.e.f 12.11.2020. E-verification of the project status has been submitted on the link as asked by MoEFCC. E-verification copy attached as Annexure-18 .
viii.	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during Public	Noted. The commitments made during public hearing, recommendations made in the EIA/EMP report and also

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



**Six Monthly Compliance Report
(April-2025 to September-2025)**

**M/s Shakambhari Ispat & Power Limited, Unit-Rukni
(Formerly known as M/s Bravo Sponge Iron Pvt. Limited)**

Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020

S No	Conditions	Compliance Status
	Hearing and also that during their presentation to the Expert Appraisal Committee.	that during presentation to the Expert Appraisal Committee on different aspects has been implemented and are under implementation with the development of the ongoing projects. The pollution control facilities like bag filters, ESPs, closed conveying system, dust extraction system on different transfer points, water sprinkling on roads and other dust prone areas for fugitive dust suppression, construction of health checkup centers and operating with qualified medical staff, safety appliances to the workers, skill development center for woman empowerment, drinking water arrangements for the villagers as per requirement, solar lighting system on Kashiberia and Mahuda village has been implemented. Primary school and study classes from standard 1 to 5 class has been started in the village Kashberia. Rainwater harvesting pond has been developed for natural ground water recharge.
ix.	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 followed. No further expansion or modification will be undertaken without prior approval of the MoEF&CC.
x.	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.	Noted.
xi.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted.
xii.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted. The company shall be abided with the stipulations and direction made by Hon'ble MoEF&CC.
xiii.	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	Noted. It shall be adhered.
xiv.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.

EC F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020



Environmental Clearance F. No.: J-11011/758/2009-IA. II (I), Dated: 18th April, 2017

SL	CONDITIONS	COMPLIANCE STATUS
A. SPECIFIC CONDITIONS:		
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.	24x7 Online Continuous Emission Monitoring System (OCEMS) have already been installed with stacks of DRI, AFBC Boiler & Pellet Plant stack and monitored data being remitted to CPCB & SPCB through online server. Company has also registered with new CEMS portal launched by CPCB and data transmission with new portal is in the process of activation. Latest stack monitoring reports are attached as Annexure 8 .
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 dust prone locations. SIPL have deployed movable water tankers for dust suppression on the road and minimizing fugitive emissions. Latest fugitive emissions (work Zone) monitoring report is attached as Annexure-3
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-9
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.	Online Continuous Emission Monitoring System (OCEMS) have been installed at Stacks of DRI and CPP. 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. Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels. Latest stack monitoring report is enclosed as Annexure-8
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 for land filling.
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.	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-6 Plantation of 33% greenbelt development has been completed with different indigenous species covering 5.38 Ha maintaining the tree density approx. 2500/ha area against 16.30ha land this EC. Plantation has been done using indigenous species i. e. Mahaguni, Segun, Pakur, Radhachura, Neem, Bakul, Shishu, Jarul, Arjuna, Sonajuri, Kadam, Peal 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-7
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-2

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. Water sprinkling system, bag filters and ESPs are provided. Hot flue gases from kiln followed by ABC being taken to waste heat recovery boilers for captive power generation. Latest work zone (Fugitive Emission) monitoring report is enclosed as Annexure-3
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 effluent, ground water & surface water analysis report is enclosed as Annexure-9, Annexure-10 & Annexure-19
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-20
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 for captive power generation. Fly ash is being utilized in fly ash brick manufacturing and provided to brick manufacturing units. Induction Furnace slag and Bottom Ash 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 manufacturers for further utilization and Memorandum of Understanding shall be submitted to the Ministry's Regional Office.	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 as Annexure-13
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-7 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. SIPL 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 bring into focus any 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.	It is compiled and already submitted. SIPL has implemented standard operating procedure to look into any infringement / deviation/violation of environmental or forest norms/ conditions. SIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions. SIPL have in placed reporting system for non-compliance/violation of environmental norms.
19.	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.	Complied. SIPL has installed 507 kWp solar panel for generation of renewable energy. It is under operation. Solar light has been installed in the village Mahuda & Kashiberia and in plant also under CER activity.

20.	The project proponent shall provide for LED lights in their offices and residential areas.	Complied.
21.	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.	It is being/shall be complied.
B-GENERAL CONDITIONS:		
1.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.	Being adhered as per the stipulation made by WBPCB and State Government. Plant is operated with valid Consent to Operate (CTO).
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. 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).
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 four locations. Latest Ambient Air Quality monitoring reports for PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and stack monitoring report is enclosed in <u>Annexure-2 & Annexure-8</u>
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. No effluent industrial effluent being discharged outside the factory premises. Latest analysis report of treated effluent is enclosed as <u>Annexure-9</u>

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-3 & Annexure-2
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-4
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 table.	Rain water harvesting structure has been developed within the plant to harvest the rain water.
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 are regularly working for 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. A primary school with study classes from standard 1 to 5 class has been started in the village Kashberia. (Annexure-15).
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 Bhubaneswar. 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, WHRBs 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 are 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 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 Bhubaneswar. 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.	It is being complied. Compliance status report being periodically uploaded on company's website. 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 on regular basis. It is submitted in soft copy only as per direction of Hon'ble MoEF&CC 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 Bhubaneswar by e-mail.	It is being complied. The environment statement for FY 2024-25 has been submitted & FY 2025-26 will be submitted to WBPCB with copy to sub office Kolkata of the MoEF& CC and the report being uploaded on the company website as per direction.

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 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.	Complied.
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

Information of Transfer of Environment Clearance from M/s. Bravo Sponge Iron Private Limited to M/s. Shakambhari Ispat & Power Limited, located at Village- Mahuda, P.O.- Rukni, District: Purulia (WB)

From R K Mishra <rk.mishra@shakambhargroup.in>

Date Mon 12/15/2025 8:33 PM

To Sub Office Kolkata <iro.kolkata-mefcc@gov.in>

Cc ms.wbpcb-wb@bangla.gov.in <ms.wbpcb-wb@bangla.gov.in>; rdkolkata.cpcb@gov.in <rdkolkata.cpcb@gov.in>; ee11wbpcb-wb <ee11.wbpcb-wb@bangla.gov.in>; Sanjeev Kumar Sachan <sanjeev.sachan@shakambhargroup.in>

 1 attachment (1 MB)

Forwarding Letter_EC Transfer Information.pdf

Respected Sir/Ma'am,

In reference to subject, we wish to inform that Environment Clearance (s) issued in the name M/s. Bravo Sponge Iron Pvt. Limited has been transferred in the name of M/s. Shakambhari Ispat & Power Limited. Formal information along with EC transfer letter issued by MoEF&CC is attached for your kind consideration.

Therefore, we request you to kindly take note of this transfer of EC and update your records for future correspondence.

Thanking you & with regards,

Yours faithfully,

For Shakambhari Ispat & Power Limited, Unit-Rukni

R. K. Mishra
GM-EHS



SHAKAMBHARI ISPAT & POWER LTD.

(Formerly known as Ess Dee Aluminium Ltd.)

CIN: U24109WB2004PLC170941 | PAN: AABCE3113G | GSTIN: 19AABCE3113G320

To,

Date: 15.12.2025

The Dy. Director General of Forest (DDGF)

GOI, MoEF&CC, Sub Office, Kolkata

IB-198, Salt Lake City, Sector-III, Kolkata – 700106

Subject: Information of Transfer of Environment Clearance from Bravo Sponge Iron Private Limited to Shakambhari Ispat & Power Limited issued for Production of 2.1555 Million Tons Per Annum Crude Steel/Stainless Steel, 0.160704 Million Tons Per Annum Ferro-Alloys (maximum) and 2x1MTPA Cement Plant (Grinding Unit) along with allied facilities located at Village- Mahuda, P.O.- Rukni, District: Purulia (WB)-regarding

Reference: EC – F. No. EN/674/T-II-1/150/2007 dt 24.03.2008

F. No.-J-11011/758/2009-IA.II(IND-1) dated 02.05.2024, 05.11.2020 & 18.04.2017

Respected Sir / Ma'am,

We hereby wish to inform that, by virtue of the Scheme of Amalgamation and orders of Hon'ble National Company Law Tribunal (NCLT), Kolkata Bench dated 10.06.2025 Bravo Sponge Iron Private Limited having CIN number U27106WB1997PTC082921 was formally amalgamated / merged into Shakambhari Ispat & Power Limited (CIN number - U27109WB2001PLC093869) and in the process of amalgamation this Company was amalgamated to ESS DEE Aluminium Limited (CIN - U24109WB2004PLC170941) with effect from date of NCLT order, and simultaneously the name of ESS DEE Aluminium limited was changed to Shakambhari Ispat & Power Limited through NCLT order dated 10.06.2025 and Ministry of Corporate Affairs certificated dated 13.08.2025.

Pursuant to this amalgamation/merger, the legal entity namely Bravo Sponge Iron Private Limited having CIN number U27106WB1997PTC082921 has ceased its existence w.e.f. 10.06.2025 and all the respective businesses and operations of erstwhile company have now become part and parcel of Shakambhari Ispat & Power Limited (Formerly known as ESS DEE Aluminium Limited, CIN - U24109WB2004PLC170941) including the integrated steel plant located at Village- Mahuda, P.O.- Rukni, District: Purulia, West Bengal.

In view of this and by virtue of the NCLT Order, all the operative licenses / approvals thereof standing in the previous name of Bravo Sponge Iron Private Limited was required to be transferred in the name of Shakambhari Ispat & Power Limited (Formerly known as ESS DEE Aluminium Limited).

Therefore, application for transfer of Environment Clearance issued vide F. No. EN/674/T-II-1/150/2007 dt 24.03.2008 by SEIAA, West Bengal and F. No.-J-11011/758/2009-IA. II(IND-1) dated 02.05.2024, 05.11.2020 & 18.04.2017 issued by MoEF&CC was submitted to Ministry of Environment Forest & Climate Change (MoEF&CC) New Delhi vide proposal no. IA/WB/IND1/549747/2025 seeking transfer of EC in the name of Shakambhari Ispat & Power Limited.

Regd. Office: "Diamond Prestige", 41A, A.J.C. Bose Road, 8th Floor + 801, Kolkata, West Bengal - 700017, India.
Unit Madandih: Vill. - Madandih, P.O. - Batoria, Dist. - Purulia, West Bengal - 723121, India.
Unit Rukni: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Dist. - Purulia, West Bengal - 723145, India.
Unit Mogra: Vill. & P.O. - Floora, P.S. - Mogra, Dist. - Hooghly, West Bengal - 712147, India.
Phone: 033 6625 5252 | E-mail: info@shakambhargroup.in | Website: www.shakambhargroup.in

After reviewing the documents MoEF&CC has accepted our request and EC transfer letter has been issued vide EC File No. J-11011/758/2009-IA-II(IND-I) dated 30.11.2025 (copy of EC Transfer Letter issued by MoEF&CC is attached as **Annexure-1** for your reference)

Consent to establish and Consent to Operate has also been transferred in the name of Shakambhari Ispat & Power Limited. Letter issued by West Bengal Pollution Control Board (WBPCB) vide Memo No. 1162-2N-21/2012(E) dated 10.10.2025 is attached **Annexure-2**.

We hereby confirm that, we shall abide by and comply to the same terms and conditions/ environmental safeguards under which the prior Environment Clearances were granted.

In view of the above we request you to kindly take note of this transfer of EC and update your records for future correspondence.

Thanking you & with regards,

For **Shakambhari Ispat & Power Limited, Unit-Rukni**

(Authorized Signatory)



Copy to:

- 1- Member Secretary, West Bengal Pollution Control Board Paribesh Bhawan, 10A Block-LA, Sector-III, Salt Lake, Kolkata-700 106
- 2- Regional Director, Central Pollution Control Board SO2, Southend Conclave (Kasba New Market), 5th Floor, 1582, Rajdanga Main Road, Kolkata (W.B.) -700107.
- 3- Environmental Engineer, West Bengal Pollution Control Board, Asansol Regional Office, Kalyanpur Satellite Township Project, Dr. B.C. Roy Road, PO- Dakshin Dhadka, Asansol-713302 Dist.-Paschim Bardhaman (W.B.)



File No:J-11011/758/2009-IA-II(IND-I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Dated 30/11/2025



To,

M/s. BRAVO SPONGE IRON PRIVATE LIMITED
 41A, AJC Bose Road, Diamond Prestige, 8th Floor, Room No. 801,
 Kolkata, West Bengal, 700017
 Email: bravomoef@shakambhargroup.in

Subject:

Transfer of Environment Clearance titled "Expansion of Sponge Iron Plant for Production of 2.1555 Million Tons Per Annum Crude Steel/Stainless Steel, 0.160704 Million Tons Per Annum Ferro-Alloys (maximum) and 2x1MTPA Cement Plant (Grinding Unit) along with allied facilities., located at Village- Mahuda, P.O.- Rukni, District: Purulia, West Bengal" from M/s Bravo Sponge Iron Pvt. Ltd to M/s Shakambhari Ispat & Power Limited-**Regarding**.

Sir/Madam,

Reference is invited to your online proposal no. IA/WB/IND1/549747/2025 dated 27.09.2025 seeking transfer of Environment Clearance cited above from M/s Bravo Sponge Iron Pvt. Ltd to M/s Shakambhari Ispat & Power Limited

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC25A1001WB5695590T
(ii) File No.	J-11011/758/2009-IA-II(IND-I)
(iii) Clearance Type	Transfer of EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	3(a) Metallurgical Industries (ferrous and non ferrous),3(b) Cement plants ,3(b) Cement plants ,4(b) Coke oven plants,1(d) Thermal Power Plants,1(d) Thermal Power Plants,4(b) Coke oven plants
(vi) Sector	Industrial Projects - I
(vii) Name of Project	Transfer of Environment Clearance from Bravo Sponge Iron Private Limited to Shakambhari Ispat & Power Limited issued for Production of 2.1555 Million Tons Per Annum Crude Steel/Stainless Steel, 0.160704 Million Tons Per Annum Ferro-

	Alloys (maximum) and 2x1MTPA Cement Plant (Grinding Unit) along with allied facilities located at Village- Mahuda, P.O.- Rukni, District: Purulia, West Bengal
(viii) Location of Project (District, State)	PURULIA, WEST BENGAL
(ix) Issuing Authority	MoEF&CC
(x) EC Date	02/05/2024
(xi) Details of Transferee	41A, A.J.C. BOSE ROAD, DIAMOND PRESTIGE BUILDING, 8th FLOOR, ROOM No. 801, KOLKATA-700017, Kolkata, 315,19,700017 BRAVO SPONGE IRON PRIVATE LIMITED, BRAVO SPONGE IRON PRIVATE LIMITED, VILLAGE: MAHUDA, P.O: RUKNI, DISTRICT: PURULIA, WEST BENGAL
(xii) Details of Transferor	,Mahuda,321,19,723145

3. The Ministry of Environment, Forest and Climate Change (MoEF&CC) has examined the request submitted by you and the following points are noted:

i. The project was initially accorded Environment Clearance (EC) from State Environment Impact Assessment Authority (SEIAA), West Bengal on 24th March, 2008, in the year 2013 and thereafter, the company obtained EC from MoEF&CC vide F.No. J-11011/758/2009-IA.II(I) on 18th April, 2017 for expansion of sponge iron plant from 195 TPD to 395 TPD, installation of 600 TPD Billet Manufacturing unit and Rolling Mill of capacity 600 TPD along with Captive Power Plant 18MW (AFBC 10MW + WHRB 8MW). Further, the company obtained another EC from MoEF&CC vide F.No. 11011/758/2009-IA.II(I) dated on 05th November 2020 for the expansion of the steel plant by installation of 2x0.85MTPA Pellet Plant, additional 1x350TPD Sponge Iron Plant, 3x25Ton Induction Furnaces, 12x4000Nm³/hr. Producer Gas Plant, capacity revision of Rolling Mill from 600TPD to 1000TPD along with 7MW additional power generation from Waste Heat Recovery Boilers. The latest EC has been obtained vide letter J-11011/758/2009-IA.II(I) dated 02/05/2024.

ii. PP submitted that the application for transfer of CTE in favor of the Shakambhari Ispat & Power Limited has already been submitted to the Competent Authority

iii. **Reasons for transfer of EC:** Reasons for transfer of EC: By virtue of the Scheme of Amalgamation and the orders of Hon'ble National Company Law Tribunal (NCLT), Kolkata Bench, Bravo Sponge Iron Private Limited was amalgamated and changed its name to Shakambhari Ispat & Power Limited through NCLT order dated 10.06.2025 and Ministry of Corporate Affairs certificate dated 13.08.2025. Consequent to the amalgamation, Bravo Sponge Iron Private Limited ceased to exist with effect from 10.06.2025 and all its business, operations, and assets including the integrated steel plant located at Village- Mahuda, P.O.- Rukni, District- Purulia, West Bengal have now become part of Shakambhari Ispat & Power Limited. In view of the above, the Environmental Clearance (EC) granted in the name of Bravo Sponge Iron Private Limited is required to be transferred to Shakambhari Ispat & Power Limited, being the present and continuing legal entity.

iv. **Documents submitted for EC transfer:**

a. Form No.7 for transfer of Environmental Clearance.

b. NCLT order dated 10.06.2025 and Ministry of Corporate Affairs certificate dated 13.08.2025.

- c. PP submitted NoC from the transferor dated 21/08/2025 in non-judicial stamp paper.
- d. Undertaking by way of Affidavit on non-judicial stamp paper by M/s Shakambhari Ispat & Power Limited that they will abide by and comply with all the conditions/ environmental safeguards stipulated in the environmental clearance EC letter F.No. EN/674/T-II-1/150/2007 dated 24.03.2008 and File No IA-J-11011/758/2009-IA-II(IND-I), dated 18.04.2017 , 05.11.2020 and 02.05.2024.
- e. The implementation status of the project.
4. In view of the foregoing, the Ministry hereby accepts your request to transfer of Environment Clearance accorded by MoEF&CC vide letter dated EC letter F.No. EN/674/T-II-1/150/2007 dated 24.03.2008, and File No IA-J-11011/758/2009-IA-II(IND-I), dated 18.04.2017 , 05.11.2020, and 02.05.2024 from M/s Bravo Sponge Iron Pvt. Ltd to M/s Shakambhari Ispat & Power Limited, subject to satisfactory compliance with all the stipulated specific and general conditions.
5. M/s Shakambhari Ispat & Power Limited shall comply with the all-specific and general conditions stipulated in the Environment Clearance letter F.No. EN/674/T-II-1/150/2007 dated 24.03.2008, and File No IA-J-11011/758/2009-IA-II(IND-I), dated 18.04.2017 , 05.11.2020, and 02.05.2024. The instant EC transfer shall not extend the validity of the ECs, and the validity shall be governed as per the provisions existing at the time of original grant of EC.
6. CTO should be obtained in the name of M/s Shakambhari Ispat & Power Limited .
7. In case, there is a change in the scope of the project, fresh Environment Clearance shall be obtained.
8. This issues with the approval of the Competent Authority.

(Dinesh Runiwal)
Scientist 'F'/Director
Tel: 011-20819346
Email-d.runiwal@gov.in

Copy To

1. The Secretary, Department of Environment, Government of West Bengal, Secretariat Kolkata.
2. The Secretary, Department of Forests, Government of West Bengal, Kolkata.
3. The Director General of Forest, Ministry of Environment, Forest and Climate Change, New Delhi.
4. The Principal Chief Conservator of Forests, Government of West Bengal, Block LA, 10A Sector-III, Salt Lake City, Kolkata-700098.
5. The Deputy Director General of Forests (C), Integrated Regional Office, Ministry of Environment, Forest and Climate Change, IB-198, Sector-II, Salt Lake City, Kolkata – 700106
6. The Member Secretary, Central Pollution Control Board, CBD-Cum-Office Complex, East Arjun Nagar, New Delhi-110032.
7. The Member Secretary, West Bengal State Pollution Control Board, Parihesh Bhawan, 10A- Block LA, Sector –III, Salt Lake City, Kolkata – 700 098.
8. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi 110001.
9. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
10. District Collector, Purulia District, West Bengal.
11. Guard File/Monitoring File/Website/Record File/ Parivesh Portal

Send Approval Copy To (In case of multiple use comma as separator)

--



**PROJECT IMPLEMENTATION STATUS AS PER EC DATED
02.05.2024**

Plant unit	Capacity as per EC	Installed capacity as per CTO	Unimplemented capacity & unit	Expected time of completion of remaining capacity
Pellet Plant with grinding	2x0.85 MTPA 17,00,000 TPA	2x0.85 MTPA 17,00,000 TPA As per CTO dated 08.12.2021 & 22.12.2022	-	--
Producer Gas Plant	12x4000 Nm3/hr 48,000 Nm3/hr	12x4000 Nm3/hr 48,000 Nm3/hr As per CTO dated 08.12.2021	-	--
Sponge Iron Plant	4x100 TPD + 1x350 TPD + 8x600 TPD 21,97,800 TPA	4x100 TPD + 1x350 TPD DRI Kilns Installed and operated on Production Capacity of 2,97,000 TPA CTO dated 23.12.2021 & 22.12.2022	8x600 TPD for Production Capacity 19,00,800 TPA is not installed. NIPL dated 22.08.2025 for change in configuration from 8x600 TPD to 3x1000 TPD + 3x600 TPD is obtained.	Within validity period of EC granted
Blast Furnace	MBF - 1x450 m3 + 1x650 m3 PCM - 1x1530 TPD + 1x2200 TPD Slag Granulation Plant - 540 TPD + 775 TPD 13,09,000 TPA	Not Installed	MBF - 1x450 m3 + 1x650 m3 PCM - 1x1530 TPD + 1x2200 TPD Slag Granulation Plant - 540 TPD + 775 TPD 13,09,000 TPA	Within validity period of EC granted
Sinter Plant	2x130 m2 24,75,200 TPA	Not Installed	2x130 m2 24,75,200 TPA	Within validity period of EC granted
Ductile Iron plant	750 TPD 2,47,500 TPA	Not Installed	750 TPD 2,47,500 TPA	Within validity period of EC granted
Coke Oven Plant	3LTPA: 4 batteries@ 17 Ovens each 4LTPA: 4 batteries@ 23 Ovens each 7,04,000 TPA	Not Installed	3LTPA: 4 batteries@ 17 Ovens each 4LTPA: 4 batteries@ 23 Ovens each 7,04,000 TPA	Within validity period of EC granted

SMS -I (IF-LRF-CCM)	IF:4x15T+ 3x25T LRF: 1x30T AOD 1x25 Ton CCM: 1x4/7 m and 1x6/11 m 445,500 TPA MS Billets including max. 198,000 TPA SS Billets	IF:4x15T with 1x4/7 m CCM for production of 1,98,000 TPA MS Billets has been installed and operated. As per CTO dated 23.12.2021 & 12.03.2025	These units are yet to be implemented IF: 3x25T LRF: 1x30T AOD 1x25 Ton CCM: 1x6/11 m Production – 2,47,500 TPA MS Billets	Within validity period of EC granted
SMS-II	IF: 10x30T, LRF: 1x30T, 3x6/11 CCM 1,050,000 TPA MS Billets	Not Installed	IF: 10x30T, LRF: 1x30T, 3x6/11 CCM 1,050,000 TPA MS Billets	Within validity period of EC granted
SMS-III (CCM)	LD Converter: 1x55T LRF: 2x55T VD: 1x55 Ton CCM: 2x8/15 m 6,60,000 TPA MS Billets	Not Installed	LD Converter: 1x55T LRF: 2x55T VD: 1x55 Ton CCM: 2x8/15 m 6,60,000 TPA MS Billets	Within validity period of EC granted
Rolling mill with wire drawing	RM1 – 1000 TPD RM2 – 2000 TPD RM3 – 1000 TPD RM4 – 500 TPD 1,485,000 TPA MS long product including max. 194,000 TPA SS Long products	RM1 – 1000 TPD is installed and Operated. As per CTO dated 12.03.2025	RM2 – 2000 TPD RM3 – 1000 TPD RM4 – 500 TPD The above units are yet to be implemented	Within validity period of EC granted
Reheating Furnace	RM1 – 50 TPH RM2 – 100 TPH RM3 – 50 TPH RM4 – 25 TPH	Not Installed	RM1 – 50 TPH RM2 – 100 TPH RM3 – 50 TPH RM4 – 25 TPH The above units are yet to be implemented	Within validity period of EC granted
Oxygen Plant	2x225TPD 1,64,250 TPA	Not Installed	2x225TPD is yet to be implemented 1,64,250 TPA	Within validity period of EC granted
Captive Power Plant	WHRB – 155 MW+BF gas – 30 MW +Coke Oven WHRB – 35 MW +AFBC – 10 MW + CFBC – 50 MW 280 MW	WHRB +AFBC 23.9 MW is implemented and operational As per CTO dated 23.12.2021 & 22.12.2022	WHRB – 140 MW+BF gas – 30 MW +Coke Oven WHRB – 35 MW +AFBC – 1.1 MW + CFBC – 50 MW Above units are not installed	Within validity period of EC granted
Cement Plant	2x1 MTPA 19,80,000 TPA	Not Installed	2x1 MTPA 19,80,000 TPA	Within validity period of EC granted

Ferro Alloys	6x9 MVA Fe-Mn – 1,45,543 TPA or Si-Mn – 1,07,136 TPA or Fe-Si – 48,211 TPA Or HC Fe-Cr – 1,01,497 TPA Or Fe-Si-Cr – 66,498 TPA Or Pig Iron – 1,60,704 TPA Or combination of any	Not Installed	Fe-Mn – 1,45,543 TPA or Si-Mn – 1,07,136 TPA or Fe-Si – 48,211 TPA Or HC Fe-Cr – 1,01,497 TPA Or Fe-Si-Cr – 66,498 TPA Or Pig Iron – 1,60,704 TPA Or combination of any	Within validity period
MRP	1x25 TPH	Not Installed	1x25 TPH	Within validity period of EC granted
Briquette Plant	1x50 TPH 3,00,000 TPA	Not Installed	1x50 TPH 3,00,000 TPA	Within validity period of EC granted
Sinter Plant	1x600 TPD 216,000 TPA	Not Installed	1x600 TPD 216,000 TPA	Within validity period of EC granted
Railway Siding	From Rukni Railway Str. to the Plant location 1 km (approx.) with Wagon Tippler	Construction work is started	Under implementation	Within validity period of EC granted

Signature Not Verified

Digitally Signed by : Shri Dinesh Raniwal
Member Secretary, MoEFCC (EC)

Date: 30/11/2025



LIFE
Lifestyle for
Environment

WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Government of West Bengal)

Paribesh Bhawan, 10A, Block - LA, Sector III, Bidhannagar

Kolkata - 700 106, Ph.: (033) 2202-3000, Fax: (033) 2202-3099

Website: www.wbpcb.gov.in, Email: net.wbpcb-wb@bangla.gov.in

Corrigendum

Memo No. 1161-2N-117/2007(E)

Date: 10.10.2025

To,

M/s. SHAKAMBHARI ISPAT & POWER LIMITED (Formerly known as ESS DEE Aluminium Limited)

"Diamond Prestige", 41A, A.J.C. Bose Road, 8th Floor, #B01, Kolkata, West Bengal - 700017.

Sub: Corrigendum to following CTEs and CTOs:

1. CTE issued vide NOC Sl. No. NO164516, Memo No. 349-2N-117/2007(E) -Pt. dated 10.11.2020
2. CTE No.: WBPCB/5190600/2024 dated 07.01.2025
3. CTE No.: WBPCB/7418950/2025 dated 18.09.2025
4. CTO No.: CO132107, Memo No. 294-WPBA/Red/(Prt)/Cont (135)/04 (Part-I) dated 08.12.2021
5. CTO No.: CO131807, Memo No. 894-WPBA/Red/(Prt)/Cont (135)/04 (Part-II) dated 23.12.2021
6. CTO Amendment vide Memo No. 347-WPBA/Red/(Prt)/ Cont(135)/04 (Part-III) dated 06.05.2022
7. CTO No.: CO141013, Memo No. 491-WPBA/Red/(Prt)/Cont (135)/04 (Part-I) dated 22.12.2022 and
8. CTO No.: WBPCB/6440096/2025 dated 12.03.2025.

Ref: Order issued by Hon'ble National Company Law Tribunal dated 10.06.2025 for amalgamation of Bravo Sponge Iron Private Limited and Shakambhari Ispat & Power Limited [Company Petition C.P (CAA) No. 6/ KB / 2025 Connected with Company Application (CAA) No. 216 / KB /2023].

Sir,

In reference to aforementioned subject & order this is to inform you that the West Bengal Pollution Control Board has noted change of name of the project from M/s. Bravo Sponge Iron Private Limited to M/s. SHAKAMBHARI ISPAT & POWER LIMITED (Formerly known as ESS DEE Aluminium Limited) as per your online application (Application No: 7544582) made through WBOCMMS.

This is to be treated as an Annexure to the aforementioned CTEs and CTOs. All other conditions of the said CTEs and CTOs shall remain unchanged.

Yours faithfully,

Chief Engineer (EIM Cell)

West Bengal Pollution Control Board

ANNEXURE- 2



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/37

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025 - 05.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/VII
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/VII/25-26
		Type of Sample	: Ambient Air

A) GENERAL INFORMATION	
1. Location of Sampling	: Near Railway Siding Area (Northern Side)
2. Duration of Sampling	: 24 hrs. (10:00 a.m. - 10:00 a.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	29.5
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	80.0
3.	Rainfall	mm	IS : 5235 & Specification of Surface Meteorological Instrument, IMD, GOI	<0.2

C)	RESULTS				
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Fine Particulate Matter [Size less than 2.5 µm] of PM2.5	µg/m³	IS 5182 (Part 24)	48.41	60.0
2.	Respirable Suspended Particulate Matter [Size less than 10 µm] of PM10	µg/m³	IS 5182 (PART 23)	76.52	100.0
3.	Sulfur Dioxide	µg/m³	IS 5182 Part 2, Sec.1	16.57	80.0
4.	Nitrogen dioxide	µg/m³	IS 5182 Part 6	26.24	80.0
5.	Carbon Monoxide	mg/m³	IS 5182 Part 10 (Non Dispersive Infrared Absorption Method)	0.40	2.0
6.	Lead as Pb	µg/m³	USEPA IO 3.4	<0.01	1.0
7.	Benzo (a) Pyrene	ng/m³	IS 5182 Part 12	<0.36	1.0
8.	Benzene	µg/m³	IS 5182 (Part 11) Method 1	<0.74	5.0
9.	Ozone	µg/m³	IS 5182 Part IX	<10.0	100.0
10.	Ammonia	µg/m³	IS 5182 Part 25	<4.18	400.0
11.	Nickel as Ni	ng/m³	USEPA IO 3.4	<0.02	20.0
12.	Arsenic as As	ng/m³	USEPA IO 3.4	<0.01	6.0

Remarks : Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory:

Dr. Ajay Paul

(Dr. Ajay Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/37

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025 - 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/VIII
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/VIII/25-26
		Type of Sample	: Ambient Air

A) GENERAL INFORMATION	
1. Location of Sampling	: Near Main Gate (Western Side)
2. Duration of Sampling	: 24 hrs. (09:30 a.m. - 09:30 a.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	: 29.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	: 82.0
3.	Rainfall	mm	IS : 5235 & Specification of Surface Meteorological Instrument, IMD, GOI	: <0.2

C)	RESULTS				
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Fine Particulate Matter [Size less than 2.5 µm] of PM2.5	µg/m³	IS 5182 (Part 24)	49.28	60.0
2.	Respirable Suspended Particulate Matter [Size less than 10 µm] of PM10	µg/m³	IS 5182 (PART 23)	75.98	100.0
3.	Sulfur Dioxide	µg/m³	IS 5182 Part 2, Sec.1	18.59	80.0
4.	Nitrogen dioxide	µg/m³	IS 5182 Part 6	30.09	80.0
5.	Carbon Monoxide	mg/m³	IS 5182 Part 10 [Non Dispersive Infrared Absorption Method]	0.52	2.0
6.	Lead as Pb	µg/m³	USEPA IO 3.4	<0.01	1.0
7.	Benzo (a) Pyrene	ng/m³	IS 5182 Part 12	<0.36	1.0
8.	Benzene	µg/m³	IS 5182 (Part 11) Method 1	<0.74	5.0
9.	Ozone	µg/m³	IS 5182 Part IX	<10.0	100.0
10.	Ammonia	µg/m³	IS 5182 Part 25	<4.18	400.0
11.	Nickel as Ni	ng/m³	USEPA IO 3.4	<0.02	20.0
12.	Arsenic as As	ng/m³	USEPA IO 3.4	<0.01	6.0
Remarks	: Result relates only to the sample tested.				

Reviewed By:

Indrani Bhattacharyya
(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory:

Dr. Ajay Paul
(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 [033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/37

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025 - 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/IX
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/IX/25-26
		Type of Sample	: Ambient Air

A) GENERAL INFORMATION	
1. Location of Sampling	: Near Administrative Building
2. Duration of Sampling	: 24 hrs. (10:00 a.m. - 10:00 a.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	: 29.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	: 82.0
3.	Rainfall	mm	IS : 5235 & Specification of Surface Meteorological Instrument, IMD, GOI	: <0.2

C)	RESULTS				
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Fine Particulate Matter [Size less than 2.5 µm] of PM2.5	µg/m ³	IS 5182 (Part 24)	41.30	60.0
2.	Respirable Suspended Particulate Matter [Size less than 10 µm] of PM10	µg/m ³	IS 5182 (PART 23)	67.68	100.0
3.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	9.40	80.0
4.	Nitrogen dioxide	µg/m ³	IS 5182 Part 6	19.98	80.0
5.	Carbon Monoxide	mg/m ³	IS 5182 Part 10 (Non Dispersive Infrared Absorption Method)	0.23	2.0
6.	Lead as Pb	µg/m ³	USEPA IO 3.4	<0.01	1.0
7.	Benzo (a) Pyrene	ng/m ³	IS 5182 Part 12	<0.36	1.0
8.	Benzene	µg/m ³	IS 5182 (Part 11) Method 1	<0.74	5.0
9.	Ozone	µg/m ³	IS 5182 Part IX	<10.0	100.0
10.	Ammonia	µg/m ³	IS 5182 Part 25	<4.18	400.0
11.	Nickel as Ni	ng/m ³	USEPA IO 3.4	<0.02	20.0
12.	Arsenic as As	ng/m ³	USEPA IO 3.4	<0.01	6.0

Remarks : Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/37

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025 - 05.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/X
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/X/25-26
		Type of Sample	: Ambient Air

A)	GENERAL INFORMATION
1.	Location of Sampling : Mahuda Village (0.5 km. from Plant) (Southern Side)
2.	Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	29.5
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	80.0
3.	Rainfall	mm	IS : 5235 & Specification of Surface Meteorological Instrument, IMD, GOI	<0.2

C)	RESULTS				
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Fine Particulate Matter (Size less than 2.5 µm) of PM2.5	µg/m³	IS 5182 (Part 24)	32.54	60.0
2.	Respirable Suspended Particulate Matter (Size less than 10 µm) of PM10	µg/m³	IS 5182 (PART 23)	61.52	100.0
3.	Sulfur Dioxide	µg/m³	IS 5182 Part 2, Sec.1	7.84	80.0
4.	Nitrogen dioxide	µg/m³	IS 5182 Part 6	15.16	80.0
5.	Carbon Monoxide	mg/m³	IS 5182 Part 10 (Non Dispersive Infrared Absorption Method)	0.16	2.0
6.	Lead as Pb	µg/m³	USEPA IO 3.4	<0.01	1.0
7.	Benzo (a) Pyrene	ng/m³	IS 5182 Part 12	<0.36	1.0
8.	Benzene	µg/m³	IS 5182 (Part 11) Method 1	<0.74	5.0
9.	Ozone	µg/m³	IS 5182 Part IX	<10.0	100.0
10.	Ammonia	µg/m³	IS 5182 Part 25	<4.18	400.0
11.	Nickel as Ni	ng/m³	USEPA IO 3.4	<0.02	20.0
12.	Arsenic as As	ng/m³	USEPA IO 3.4	<0.01	6.0

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajay Paul

(Dr. Ajay Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands

ANNEXURE- 3



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XI
		Report No.	: ENV/28/Sep./TR(A)/XI/25-26
Sample Testing Location	: Permanent Testing		

A]	GENERAL INFORMATION
1.	Location of Sampling : DRI - 350 TPD Area
2.	Duration of Sampling : 08 hrs. (09:10 a.m. - 05:10 p.m.)

B]	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	30.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	82.0

C]	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m³	IS 5182 (Part 4)	460.01
2.	Sulfur Dioxide	µg/m³	IS 5182 Part 2, Sec.1	18.48
3.	Nitrogen Dioxide	µg/m³	IS 5182 Part 6	31.41
Remarks	: Result relates only to the sample tested.			

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792889/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XII
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/XII/25-26

A)	GENERAL INFORMATION
1.	Location of Sampling : Near AFBC - Boiler Area
2.	Duration of Sampling : 08 hrs. (09:40 a.m. - 05:40 p.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	32.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	80.0

C]	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m ³	IS 5182 (Part 4)	436.20
2.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	16.80
3.	Nitrogen Dioxide	µg/m ³	IS 5182 Part 6	26.36
Remarks	: Result relates only to the sample tested.			

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792889/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XIII
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/XIII/25-26

A)	GENERAL INFORMATION
1.	Location of Sampling : DRI - 100 TPD Area
2.	Duration of Sampling : 08 hrs. (10:10 a.m. - 06:10 p.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	30.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	82.0

C)	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m ³	IS 5182 (Part 4)	780.50
2.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	12.76
3.	Nitrogen Dioxide	µg/m ³	IS 5182 Part 6	20.22
Remarks	Result relates only to the sample tested.			

Remarks : Result relates only to the sample tested.

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XIV
		Report No.	: ENV/28/Sep./TR(A)/XIV/25-26
Sample Testing Location	: Permanent Testing		

A]	GENERAL INFORMATION
1.	Location of Sampling : SMS Area
2.	Duration of Sampling : 08 hrs. (09:00 a.m. - 05:00 p.m.)

B]	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	30.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	82.0

C]	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m ³	IS 5182 (Part 4)	350.52
2.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	14.48
3.	Nitrogen Dioxide	µg/m ³	IS 5182 Part 6	23.47
Remarks	Result relates only to the sample tested			

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajay Paul

(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141)
 Laboratory : 189, 190, 192, 186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889)
 Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
 Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
 Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XV
		Report No.	: ENV/28/Sep./TR(A)/XV/25-26
Sample Testing Location	: Permanent Testing		

A)	GENERAL INFORMATION
1.	Location of Sampling : DRI 100 TPD - Cooler Discharge Area
2.	Duration of Sampling : 08 hrs. (09:30 a.m. - 05:30 p.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	30.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	82.0

C]	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m ³	IS 5182 (Part 4)	956.58
2.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	9.40
3.	Nitrogen Dioxide	µg/m ³	IS 5182 Part 6	19.06
Remarks	: Result relates only to the sample tested.			

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792889/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/RM/57

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: VIII - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XVI
		Report No.	: ENV/28/Sep./TR(A)/XVI/25-26
Sample Testing Location	: Permanent Testing		

A)	GENERAL INFORMATION
1.	Location of Sampling : Pellet Plant Area
2.	Duration of Sampling : 08 hrs. (10:00 a.m. - 06:00 p.m.)

B)	METEOROLOGICAL INFORMATION	UNIT	METHOD	OBSERVED VALUE
1.	Temperature	°C	ASTM E 337-02 : Sec.11, Vol. 11.07	30.0
2.	Humidity	%	ASTM E 337-02 : Sec.11, Vol. 11.07	82.0

C)	RESULTS			
SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Suspended Particulate Matter	µg/m ³	IS 5182 (Part 4)	445.36
2.	Sulfur Dioxide	µg/m ³	IS 5182 Part 2, Sec.1	14.11
3.	Nitrogen Dioxide	µg/m ³	IS 5182 Part 6	26.36
Remarks	: Result relates only to the sample tested.			

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajay Paul)
(Quality Manager)

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792889/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands

ANNEXURE- 4

BRAVO SPONGE IRON PVT LTD

VIII: Mahuda, PO-Rukm, PS: Para, Dist:Puruliya

West Bengal-723145

Medical Health Check Up of Employees & Workmen for 1st April to 30th September-2025

PARAMETERS

Sr. No.	Name	Card No.	Designation	Age	Weight	Pulse Rate	BP	Blood Group	RH Factor	ECG	W.B.C	ESR 1st Hours	X-Ray	Audio	Eye Vision Test	Colour Vision	PFT	Remarks
1	Gourav Sharma	4176	Engineer	26	79	76	129/71	O	Positive	Normal	8200	20	Normal	Normal	6/6	Normal	Normal	Fit
2	Tapas Dey	4175	Supervisor	28	59	81	111/78	A	Positive	Normal	7800	4	Normal	Normal	6/6	Normal	Normal	Fit
3	Dinesh Kr Rana	43	Menegar	45	80	78	125/89	O	Positive	Normal	7400	10	Normal	Normal	6/6	Normal	Normal	Fit
4	Mohammad Taslim	37	Menegar	45	80	78	125/89	A	Positive	Normal	4400	22	Normal	Normal	6/6	Normal	Normal	Fit
5	Achinta Roy	4171	Sr. Fitter	30	65	87	120/80	O	Positive	Normal	8200	6	Normal	Normal	6/6	Normal	Normal	Fit
6	Subham Kr Mahato	4168	Asst. Menegar	29	72	82	128/87	B	Positive	Normal	7200	7	Normal	Normal	6/6	Normal	Normal	Fit
7	Prasenjit Sardar	42	Accounts	32	56	82	121/74	A	Positive	Normal	5800	10	Normal	Normal	6/6	Normal	Normal	Fit
8	Ganesh Majee	4179	F.opert	25	68	68	130/70	O	Positive	Normal	7400	10	Normal	Normal	6/6	Normal	Normal	Fit
9	Rahul Prasad	4178	Traine	26	53	75	123/72	A	Positive	Normal	7700	12	Normal	Normal	6/6	Normal	Normal	Fit
10	Santanu Shil	4180	Traine	28	67	86	128/89	O	Positive	Normal	6200	8	Normal	Normal	6/6	Normal	Normal	Fit
11	Sudan Deshmuk	4172	Shift.Inch	36	69	95	132/85	B	Positive	Normal	7900		Normal	Normal	6/6	Normal	Normal	Fit
12	Tapash kumbhakar	4189	Opereitor	28	56	86	115/79	B	Positive	Normal	9500	6	Normal	Normal	6/6	Normal	Normal	Fit
13	Ujjwal mandal	4166	Fitter	28	64	86	130/78	AB	Positive	Normal	7200	12	Normal	Normal	6/6	Normal	Normal	Fit
14	Narendra Prasad	4177	Traine	33	71	84	140/85	O	Positive	Normal	5080	14	Normal	Normal	6/6	Normal	Normal	Fit
15	Satish Chaudhey	4163	Supervisor	45	76	79	130/90	A	Positive	Normal	7200	25	Normal	Normal	6/6	Normal	Normal	Fit
16	Mimansa Samita	62	Jr. Engineer	23	56	76	115 / 76	B	Positive	Normal	4300	18	Normal	Normal	6/6	Normal	Normal	Fit
17	Rahul Majee	71	Asst. Engineer	25	56	77	113 / 71	O	Positive	Normal	5300	10	Normal	Normal	6/6	Normal	Normal	Fit
18	Sandip Kundu	70	Sr. Fitter	32	60	85	110 / 70	B	Positive	Normal	9500	21	Normal	Normal	6/6	Normal	Normal	Fit
19	Srikanta Kundu	62	Welder	28	58	82	110 / 75	O	Positive	Normal	5800	20	Normal	Normal	6/6	Normal	Normal	Fit
20	Debit Bhadra	64	C R O	24	68	80	118 / 76	B	Positive	Normal	7700	32	Normal	Normal	6/6	Normal	Normal	Fit
21	Anirban Mandal	61	Sr. Fitter	31	69	89	138 / 85	B	Positive	Normal	6900	18	Normal	Normal	6/6	Normal	Normal	Fit
22	Pinto Mahato	68	Sr. Elect	33	52	82	115 / 80	AB	Positive	Normal	9500	15	Normal	Normal	6/6	Normal	Normal	Fit
23	Prayash Jharat	69	Sr. Engineer	26	55	82	125 / 85	AB	Positive	Normal	7000	8	Normal	Normal	6/6	Normal	Normal	Fit
24	Raju Mahato	67	Jr. Elect	25	58	74	110 / 74	O	Positive	Normal	7100	6	Normal	Normal	6/6	Normal	Normal	Fit
25	Soumen Mandal	60	F. Operl	26	53	87	115 / 75	O	Positive	Normal	10000	30	Normal	Normal	6/6	Normal	Normal	Fit
26	Sourav Mandal	54	Fitter	26	58	95	125 / 80	O	Positive	Normal	10000	10	Normal	Normal	6/6	Normal	Normal	Fit
27	Prasen Bauri	53	Asst. Fitter	42	59	88	115 / 75	A	Positive	Normal	9400	10	Normal	Normal	6/6	Normal	Normal	Fit
28	Arun Kr Patra	50	Sr. Elect	38	62	86	130 / 85	A	Positive	Normal	5300	22	Normal	Normal	6/6	Normal	Normal	Fit
29	Minal Mandal	58	Jr. Engineer	24	52	76	124 / 80	B	Positive	Normal	5400	10	Normal	Normal	6/6	Normal	Normal	Fit
30	Prasanta Mandal	51	Jr. Electr	27	70	86	115 / 80	A	Positive	Normal	6300	8	Normal	Normal	6/6	Normal	Normal	Fit
31	Sukumar Bauri	52	Welder	35	62	76	125 / 85	O	Positive	Normal	8400	12	Normal	Normal	6/6	Normal	Normal	Fit
32	Arindam Choudhary	48	Asst. Engineer	25	68	85	110 / 64	AB	Positive	Normal	6500	18	Normal	Normal	6/6	Normal	Normal	Fit
33	Jagatpati Bauri	4186	Electric	35	62	85	133 / 84	B	Positive	Normal	5800	14	Normal	Normal	6/6	Normal	Normal	Fit
34	Subrata Bhattach	46	Officer	46	65	87	122 / 82	O	Positive	Normal	8900	15	Normal	Normal	6/6	Normal	Normal	Fit
35	Mukesh Mahato	4185		23	54	65	119 / 74	AB	Positive	Normal	5100	15	Normal	Normal	6/6	Normal	Normal	Fit
36	Sourav Mandal	4184	Asst. Engineer	27	53	82	115 / 67	O	Positive	Normal	9200	10	Normal	Normal	6/6	Normal	Normal	Fit
37	Alok Kuiry	4183	Opereitor	31	53	80	117 / 74	B	Positive	Normal	8100	14	Normal	Normal	6/6	Normal	Normal	Fit
38	Santa Chatterjee	4182	Asst. Engineer	29	74	74	134 / 77	O	Positive	Normal	7200	6	Normal	Normal	6/6	Normal	Normal	Fit
39	Swarup Mandal	63	C R O	29	72	73	108 / 69	O	Positive	Normal	8600	10	Normal	Normal	6/6	Normal	Normal	Fit

40	Arjun Bauri	47	Asst. Engineer	32	66	87	120/82	B	Positive	Normal	4900	3	Normal	Normal	6/5	Normal	Fit
41	Sourav Sinha	56	Operator	27	73	86	120/82	A	Positive	Normal	7500	15	Normal	Normal	6/5	Normal	Fit
42	Pintu Baral	59		23	70	95	120/85	O	Positive	Normal	7900	31	Normal	Normal	6/5	Normal	Fit
43	Subhadip Goral	4199	DET	21	68	74	125/80	B	Positive	Normal	7400	15	Normal	Normal	6/5	Normal	Fit
44	Dipakha Goral	4222	DET	20	55	85	115/75	O	Positive	Normal	5800	25	Normal	Normal	6/5	Normal	Fit
45	Raju Dey	4225	Jr. Officer	27	82	82	116/70	B	Positive	Normal	13500	30	Normal	Normal	6/5	Normal	Fit
46	Swapan Hasda	4226	Sr. Engineer	39	63	85	140/82	A	Positive	Normal	6700	7	Normal	Normal	6/5	Normal	Fit
47	Abhay Ray	4231	DET	19	66	70	139/74	B	Positive	Normal	6000	22	Normal	Normal	6/5	Normal	Fit
48	Newton Banerjee	4189	Jr. Elect.	26	52	86	136/89	B	Positive	Normal	10700	10	Normal	Normal	6/5	Normal	Fit
49	C. S. Puramanik	87	Boiler opet	23	65	85	122/79	O	Negative	Normal	5500	22	Normal	Normal	6/5	Normal	Fit
50	Bidyut Digar	86	Electric	27	51	72	104/68	O	Positive	Normal	5000	22	Normal	Normal	6/5	Normal	Fit
51	Animesh Bera	4217	QC sup	25	74	98	135/85	O	Positive	Normal	8500	25	Normal	Normal	6/5	Normal	Fit
52	Pappu Paramanik	73	Medical ATT	32	70	85	128/86	A	Positive	Normal	9410	22	Normal	Normal	6/5	Normal	Fit
53	Raju Das	4223	Fitter	26	54	82	120/70	O	Positive	Normal	8300	18	Normal	Normal	6/5	Normal	Fit
54	Kousik Dey	4229	Asst. Engineer	23	60	73	121/62	O	Positive	Normal	7820	7	Normal	Normal	6/5	Normal	Fit
55	Kishor Saha	4233	Operator	33	65	74	116/76	O	Positive	Normal	14300	10	Normal	Normal	6/5	Normal	Fit
56	Pintu Bauri	4190	Jr. Operator	37	61	76	132/80	O	Positive	Normal	6200	4	Normal	Normal	6/5	Normal	Fit
57	Suneel Kumar	4191	Sr. Fitter	34	73	82	121/80	B	Positive	Normal	7500	35	Normal	Normal	6/5	Normal	Fit
58	Niloy Khan	89	Jr. Engineer	23	63	71	131/80	O	Positive	Normal	6200	20	Normal	Normal	6/5	Normal	Fit
59	Budhandhabal deb	83	Welder	39	56	79	124/70	AB	Positive	Normal	7300	12	Normal	Normal	6/5	Normal	Fit
60	Sahajad ota	4164	Helper	18	42	81	110/70	A	Positive	Normal	10700	15	Normal	Normal	6/5	Normal	Fit
61	Sudip Mandal	4220	DET	20	54	76	125/86	O	Positive	Normal	10800	17	Normal	Normal	6/5	Normal	Fit
62	Abhijit Bauri	4219	DET	22	50	74	126/75	O	Positive	Normal	7000	16	Normal	Normal	6/5	Normal	Fit
63	Viktor Goral	4212	DET	20	60	76	125/72	A	Positive	Normal	5800	14	Normal	Normal	6/5	Normal	Fit
64	Nandita Shaw	4198	DET	24	52	74	110/70	B	Positive	Normal	7850	8	Normal	Normal	6/5	Normal	Fit
65	Santanu Mandal	4203	DET	18	73	76	124/75	O	Positive	Normal	8800	12	Normal	Normal	6/5	Normal	Fit
66	Bibekananda Tewari	81	Technician	26	70	79	140/71	O	Positive	Normal	5600	7	Normal	Normal	6/5	Normal	Fit
67	Bhanu Pratab	76	SR Engineer	38	78	79	115/75	AB	Positive	Normal	6400	7	Normal	Normal	6/5	Normal	Fit
68	Biswajit Mandal	4201	Operator	22	59	74	125/72	O	Positive	Normal	6100	22	Normal	Normal	6/5	Normal	Fit
69	Ajoy Mandal	4200	DET	20	52	70	115/80	B	Positive	Normal	9400	10	Normal	Normal	6/5	Normal	Fit
70	Pratab Chakraborty	4202	DET	23	56	82	125/80	AB	Positive	Normal	6800	4	Normal	Normal	6/5	Normal	Fit
71	Tarakanath Swarnkar	88	Engineer	28	75	98	130/85	A	Positive	Normal	7200	7	Normal	Normal	6/5	Normal	Fit
72	Akash Sen	4218	DET	20	55	76	120/75	O	Positive	Normal	9000	7	Normal	Normal	6/5	Normal	Fit
73	Krishnakanta Mandal	4233	Engineer	26	63	85	110/74	A	Positive	Normal	6500	8	Normal	Normal	6/5	Normal	Fit
74	Syamal Mahato	4253	Operator	21	48	82	114/65	AB	Positive	Normal	6100	5	Normal	Normal	6/5	Normal	Fit
75	Satyaki Roy	4252	Shot Inch	40	60	82	126/82	B	Positive	Normal	8000	26	Normal	Normal	6/5	Normal	Fit
76	Palitra Majee	4254	Training	25	56	86	127/84	O	Positive	Normal	9830	15	Normal	Normal	6/5	Normal	Fit
77	Prityajit Sarkar	4249	C R O	28	53	77	109/67	A	Positive	Normal	9900	24	Normal	Normal	6/5	Normal	Fit
78	Sachin Gope	4241	S. Incharge	38	56	72	109/72	A	Positive	Normal	8900	13	Normal	Normal	6/5	Normal	Fit
79	Apurba Ghosal	4243	Operator	28	72	87	120/80	O	Positive	Normal	8000	7	Normal	Normal	6/5	Normal	Fit

80	Subhash Banerjee	4242 JR. Officer	30	63	91 123/68	O	Negative	Normal	8400	15	Normal	Normal	6/6	Normal	Normal	Fit
81	Sanir Mahato	4241 JR. Officer	30	81	79 108/74	O	Positive	Normal	8500	10	Normal	Normal	6/6	Normal	Normal	Fit
82	Sanjeeb Chatterjee	4239 Trainee	22	53	74 115/62	O	Positive	Normal	7800	9	Normal	Normal	6/6	Normal	Normal	Fit
83	Milan Dhibar	4237 Supervisor	30	75	76 117/70	B	Positive	Normal	8100	15	Normal	Normal	6/6	Normal	Normal	Fit
84	Sourab Goral	4234 Executive	25	87	88 136/85	O	Positive	Normal	4370	5	Normal	Normal	6/6	Normal	Normal	Fit
85	Paibira Bagdi	4236 Fitter	35	64	82 115/78	O	Positive	Normal	580	21	Normal	Normal	6/6	Normal	Normal	Fit
86	Bisal Banerjee	4238 Trainee	23	62	65 102/61	O	Positive	Normal	8300	12	Normal	Normal	6/6	Normal	Normal	Fit
87	Sasanka Bauri	4165 Helper	21	49	76 115/78	B	Positive	Normal	7600	14	Normal	Normal	6/6	Normal	Normal	Fit
88	Omrakash kumar	4257 Supervisor	26	75	85 125/80	A	Positive	Normal	6400	16	Normal	Normal	6/6	Normal	Normal	Fit
89	Sourov Paramanik	4258 JR. Trainee	22	55	85 122/80	B	Positive	Normal	7900	10	Normal	Normal	6/6	Normal	Normal	Fit
90	Achanta Pathak	4259 JR. Charmit	30	63	85 122/80	A	Positive	Normal	6600	13	Normal	Normal	6/6	Normal	Normal	Fit
91	Sanikar Sarma	4261 Forman	51	65	87 130/83	A	Positive	Normal	4800	30	Normal	Normal	6/6	Normal	Normal	Fit
92	Kisor Banerjee	4263 Supervisor	36	75	82 132/87	B	Positive	Normal	7100	11	Normal	Normal	6/6	Normal	Normal	Fit
93	Kinakanta Mahato	4264 DET	20	50	73 128/73	A	Positive	Normal	6800	35	Normal	Normal	6/6	Normal	Normal	Fit
94	Subendu Mandal	92 Jr Engineer	26	64	82 130/85	O	Positive	Normal	4800	18	Normal	Normal	6/6	Normal	Normal	Fit
95	Tahamul Hossain	93 Trainee	24	62	79 122/81	O	Positive	Normal	7800	8	Normal	Normal	6/6	Normal	Normal	Fit
96	Aush Paramanik	94 Fitter	26	56	76 107/74	O	Positive	Normal	7200	10	Normal	Normal	6/6	Normal	Normal	Fit
97	Harindra Gupta	95 Forman	42	81	75 135/85	O	Positive	Normal	8200	25	Normal	Normal	6/6	Normal	Normal	Fit
98	Krishna kr Prasad	96 SR Engineer	34	80	72 132/84	O	Positive	Normal	7200	10	Normal	Normal	6/6	Normal	Normal	Fit
99	Joyanta Kr Shing	97 A G M OC	59	74	89 122/83	O	Positive	Normal	5600	20	Normal	Normal	6/6	Normal	Normal	Fit
100	Brindaban kumbhakar	100 ASST Eng	29	68	83 122/83	A	Negative	Normal	490	8	Normal	Normal	6/6	Normal	Normal	Fit
101	Debnath Goral	101 Welder	25	62	73 120/82	O	Positive	Normal	6100	12	Normal	Normal	6/6	Normal	Normal	Fit
102	Durga ch Mahato	102 Engineer	32	60	78 122/77	B	Positive	Normal	6100	21	Normal	Normal	6/6	Normal	Normal	Fit
103	Nitai Goral	4274 Supervisor	26	65	83 126/74	B	Positive	Normal	8100	6	Normal	Normal	6/6	Normal	Normal	Fit
104	Vikas Ram	112 ASST Eng	32	62	74 115/75	B	Positive	Normal	5200	20	Normal	Normal	6/6	Normal	Normal	Fit
105	Sudip Singha	113 ASST Eng	25	57	85 118/71	O	Positive	Normal	6500	20	Normal	Normal	6/6	Normal	Normal	Fit
106	Dipayan Paramanik	120 Jr Eng	24	87	69 115/70	AB	Positive	Normal	5670	19	Normal	Normal	6/6	Normal	Normal	Fit
107	Kusal Choudhary	116 Belt Operator	27	78	78 120/80	AB	Positive	Normal	7500	15	Normal	Normal	6/6	Normal	Normal	Fit
108	Ashwpravo Sarkar	117 DCS Eng	28	80	72 122/81	A	Positive	Normal	9700	18	Normal	Normal	6/6	Normal	Normal	Fit
109	Debipal Mukherjee	4237 SR Eng	29	67	88 115/75	O	Positive	Normal	7460	10	Normal	Normal	6/6	Normal	Normal	Fit
110	Kanailal Goswami	4272 Asst Eng	26	46	90 110/70	O	Positive	Normal	6200	9	Normal	Normal	6/6	Normal	Normal	Fit
111	Shyamapada Mahato	121 Electrician	29	65	102 122/86	B	Negative	Normal	7200	15	Normal	Normal	6/6	Normal	Normal	Fit
112	Arjun Mukherjee	4276 Engineer	29	59	83 106/71	A	Positive	Normal	5600	20	Normal	Normal	6/6	Normal	Normal	Fit
113	Rajesh Kr Paramanik	119 Electrician	28	59	87 115/80	O	Positive	Normal	9200	4	Normal	Normal	6/6	Normal	Normal	Fit
114	Ashish Prakash	4266 Asst Manager	36	72	87 127/80	A	Positive	Normal	6600	12	Normal	Normal	6/6	Normal	Normal	Fit
115	Victor Bauri	118 Jr Eng	31	54	88 115/80	A	Positive	Normal	10300	8	Normal	Normal	6/6	Normal	Normal	Fit
116	Sachendu Halder	4267 Meng	50	65	83 130/80	B	Positive	Normal	7100	5	Normal	Normal	6/6	Normal	Normal	Fit
117	Dhananjay Tiwari	4270 Fitter	48	78	90 125/80	AB	Positive	Normal	8600	13	Normal	Normal	6/6	Normal	Normal	Fit
118	Bhairav Yadav	4271 Shift In	33	72	87 120/78	B	Positive	Normal	9100	10	Normal	Normal	6/6	Normal	Normal	Fit
119	Somya Ranjan Shaw	4269 Sr Eng	33	69	92 120/85	A	Positive	Normal	7200	11	Normal	Normal	6/6	Normal	Normal	Fit

ANNEXURE- 5

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email :bravosponge15@gmail.com
2.	Sender's authorisation No.	
3.	Manifest Document No.	9212501839 dt.21-04-2025
4.	Transporter's name and address: (including Phone No. and e-mail)	
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	
7.	Vehicle registration No.	WB990027
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Bcgr, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	
11.	Total quantity No. of Containers	24.260 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp: Signature: Month Day Year	21 04 2025
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp: Signature: Month Day Year	
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: Signature: Month Day Year	21 04 2025

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email :bravosponge15@gmail.com
2.	Sender's authorisation No.	:
3.	Manifest Document No.	9212504374 dt.21-05-2025
4.	Transporter's name and address: (including Phone No. and e-mail)	Self Transport
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	:
7.	Vehicle registration No.	WB9990027
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Dumjuri, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	:
11.	Total quantity No. of Containers	24.440 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	:
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Bravo Sponge Iron Pvt. Ltd.  Authorized Signatory	
	Name and stamp:	Signature: Month Day Year 2 1 0 5 2 0 2 5
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp:	Signature: Month Day Year [] [] [] [] [] [] [] []
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp:	Signature: Month Day Year 2 1 0 5 2 0 2 5



[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email :bravosponge15@gmail.com
2.	Sender's authorisation No.	
3.	Manifest Document No.	9212505707 dt.02-06-2023
4.	Transporter's name and address: (including Phone No. and e-mail)	Self Transport
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	
7.	Vehicle registration No.	WB917145
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	
11.	Total quantity No. of Containers	20.360 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Name and stamp:	Signature: Month Day Year 0 2 0 6 2 0 2 3
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp:	Signature: Month Day Year 0 2 0 6 2 0 2 3
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp:	Signature: Month Day Year 0 2 0 6 2 0 2 3

FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email: bravosponge15@gmail.com
2.	Sender's authorisation No.	
3.	Manifest Document No.	9212565527 dt.31-05-2025
4.	Transporter's name and address: (including Phone No. and e-mail)	Self Transport
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	
7.	Vehicle registration No.	WB11C7049
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	
11.	Total quantity No. of Containers	24.090 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
	Bravo Sponge Iron Pvt. Ltd.  Authorized Signatory	
	Name and stamp: Signature: Month Day Year	3 1 0 5 2 0 2 5
15.	Transporter acknowledgement of receipt of Wastes	
	Name and stamp: Signature: Month Day Year	
16.	Receiver's certification for receipt of hazardous and other waste	
	Name and stamp: Signature: Month Day Year	3 1 0 5 2 0 2 5



FORM 10
[See rule 19 (1)]

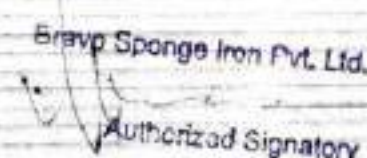
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email :bravosponge15@gmail.com
2.	Sender's authorisation No.	
3.	Manifest Document No.	9212505707 dt.02-06-2025
4.	Transporter's name and address: (including Phone No. and e-mail)	Self Transport
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	
7.	Vehicle registration No.	WB917145
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	
11.	Total quantity No. of Containers	20.360 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.  Bravo Sponge Iron Pvt. Ltd. Authorized Signatory
Name and stamp:		Signature: _____ Month _____ Day _____ Year _____ 0 2 0 6 2 0 2 5
15.	Transporter acknowledgement of receipt of Wastes	
Name and stamp:		Signature: _____ Month _____ Day _____ Year _____ _____
16.	Receiver's certification for receipt of hazardous and other waste	
Name and stamp:		Signature: _____ Month _____ Day _____ Year _____ 0 2 0 6 2 0 2 5



FORM 10
(See rule 19 (1))

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1. Sender's name and mailing address (including Phone No and e-mail)	BRAVO SPONGE IRON PVT LTD Vill Mohada, PO Rukni, PS Para, Dist- Purulia, West Bengal, Pin-723145 Email: bravosponge1@gmail.com		
2. Sender's authorisation No.	0212512508 dt 10-05-2025		
3. Manifest Document No.			
4. Transporter's name and address (including Phone No and e-mail)	Self Transport		
5. Type of vehicle	Tanker		
6. Transporter's registration No.	WBPC0027		
7. Vehicle registration No.			
8. Receiver's name and mailing address (including Phone No and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Dumjur, Howrah-711411, West Bengal, (M)-9339740130		
9. Receiver's authorisation No.	WBPCB/1764077/2024 dt 31-05-24 UNDER UDIN-24-G-GA000004-C-1717155202503		
10. Waste description			
11. Total quantity No. of Containers	24.650 MT ONE TANKER		
12. Physical form	SEMI LIQUID		
13. Special handling instructions and additional information			
14. Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.  Bravo Sponge Iron Pvt. Ltd. Authorized Signatory		
Name and stamp:		Signature:	Month Day Year 10 09 2025
15. Transporter acknowledgement of receipt of Wastes			
Name and stamp:		Signature:	Month Day Year [] [] []
16. Receiver's certification for receipt of hazardous and other waste			
Name and stamp:		Signature:	Month Day Year 10 09 2025



FORM 10
[See rule 19 (1)]

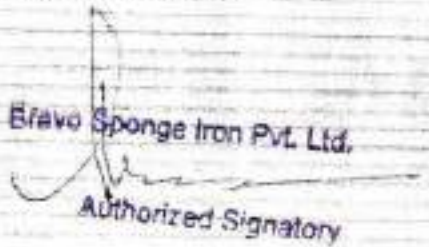
MANIFEST FOR HAZARDOUS AND OTHER WASTE

1	Sender's name and mailing address (including Phone No. and e-mail)	BRAVO SPONGE IRON PVT LTD VIII-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email: bravosponge15@gmail.com		
2	Sender's authorisation No.			
3	Manifest Document No.	9212511248 dt. 27-09-2025		
4	Transporter's name and address: (including Phone No. and e-mail)	Self Transport		
5	Type of vehicle	Tanker		
6	Transporter's registration No.			
7	Vehicle registration No.	WB990027		
8	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130		
9	Receiver's authorisation No.	WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503		
10	Waste description			
11	Total quantity No. of Containers	2.800 MT ONE TANKER		
12	Physical form	SEMI LIQUID		
13	Special handling instructions and additional information			
14	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.		
	Bravo Sponge Iron Pvt. Ltd. Authorized Signatory			
	Name and stamp:	Signature:	Month	Day
			27	09
			20	25
15	Transporter acknowledgement of receipt of Wastes			
	Name and stamp:	Signature:	Month	Day
16	Receiver's certification for receipt of hazardous and other waste			
	Name and stamp:	Signature:	Month	Day
			27	09
			20	25



FORM 10
[See rule 19 (1)]

MANIFEST FOR HAZARDOUS AND OTHER WASTE

1.	Sender's name and mailing address (including Phone No. and e-mail)	BRavo SPONGE IRON PVT LTD Vill-Mohuda, PO-Rukni, PS-Para, Dist- Purulia, West Bengal, Pin-723145 Email: bravosponge15@gmail.com
2.	Sender's authorisation No.	9212513247 dt.27-09-2025
3.	Manifest Document No.	
4.	Transporter's name and address (including Phone No. and e-mail)	Self Transport
5.	Type of vehicle	Tanker
6.	Transporter's registration No.	
7.	Vehicle registration No.	WB990027
8.	Receiver's name and mailing address (including Phone No. and e-mail)	CHOUDHARY HYDRO CARBON PVT LTD, Jalan Industrial Complex, PO- Begri, PS-Domjur, Howrah-711411, West Bengal, (M)-9339740130
9.	Receiver's authorisation	No WBPCB/4764077/2024 dt. 31-05-24 UNDER UDIN- 24-G-GA000004-C- 1717155202503
10.	Waste description	
11.	Total quantity No. of Containers	22.340 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	
14.	Sender's Certificate	I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are categorised, packed, marked, and labelled, and are in all respects in proper conditions for transport by road according to applicable national government regulations.
 Name and stamp: Signature:		Month Day Year 2 7 0 9 2 0 2 5
15.	Transporter acknowledgement of receipt of Wastes	
Name and stamp: Signature:		Month Day Year [] [] [] [] [] [] [] []
16.	Receiver's certification for receipt of hazardous and other waste	
Name and stamp: Signature:		Month Day Year 2 7 0 9 2 0 2 5



ANNEXURE- 6

PHOTOGRAPHS OF RCC ROAD







ANNEXURE- 7

GREENBELT PHOTOGRAPHS







GREENBELT DEVELOPMENT IN NEW PROJECT AREA



ANNEXURE- 8



ENVIROCHECK

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



TEST REPORT

FORMAT NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of Issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/1
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/1/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No.1 & 2) attached with common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.0
Capacity	: Rated - Kiln No.1 - 100 TPD & No.2 - 95 TPD Running - 100 TPD (Kiln No.1)	Height of sampling port (mtr.) (from G.L.)	: 14.0
Emission Due to	: Combustion of Coal and Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Kiln No.1 - 5.0 MT/hr.		
Pollution Control Device	: E.S.P with W.H.B.B		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	95.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	7.80
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	69082.91
5.	Sulfur dioxide	mg/Nm ³	IS 11255 (Part 2)	487.61
6.	Carbon dioxide by ORSAT App.	%	IS 13270	10.2
7.	Carbon Monoxide	%	IS 13270	<1.0
8.	a) Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	29.87
	b) Particulate Matter (at 12% CO ₂)	mg/Nm ³		35.14
Remarks	During monitoring Kiln No.1 was running. Result relates only to the sample tested.			

Reviewed By:

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory:

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 | 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 | 033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of Issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/II
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/II/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No.3 & 4) attached with common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.0
Capacity	: Rated - 100 TPD (each) Running - 100 TPD (Kiln No.4)	Height of sampling port (mtr.) (from G.L.)	: 14.0
Emission Due to	: Combustion of Coal and Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Kiln No.4 - 5.0 MT/hr.		
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)	98.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	7.83
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	55715.93
5.	Sulfur dioxide	mg/Nm ³	IS 11255 (Part 2)	475.42
6.	Carbon dioxide by ORSAT App.	%	IS 13270	10.2
7.	Carbon Monoxide	%	IS 13270	<1.0
8.	a) Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	21.46
	b) Particulate Matter (at 12% CO ₂)	mg/Nm ³		25.24
Remarks	During monitoring Kiln No.4 was running. Result relates only to the sample tested.			

Reviewed By:

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory:

(Dr. Ajoy Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/III
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/III/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No.1x 350 TPD)	Height of Stack (mtr.) (from G. L.)	: 72.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 2.0
Materials of Construction	: RCC Concrete	Height of sampling port (mtr.) (from G.L.)	: 31.39
Capacity	: 350 TPD		
Emission Due to	: Combustion of Coal and Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 14.4 Ton/hr.		
Pollution Control Device	: E.S.P with W.H.B		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	157.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	10.87
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	81921.35
5.	Sulfur dioxide	mg/Nm ³	IS 11255 (Part 2)	506.55
6.	Carbon dioxide by ORSAT App.	%	IS 13270	11.4
7.	Carbon Monoxide	%	IS 13270	<1.0
8.	a) Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	22.12
	b) Particulate Matter (at 12% CO ₂)	mg/Nm ³		23.28
Remarks : Result relates only to the sample tested.				

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajay Paul

(Dr. Ajay Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 03.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/IV
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/IV/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler	Height of Stack (mtr.) (from G. L.)	: 45.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 2.20
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 16.0
Capacity	: Running - 20 TPH		
Emission Due to	: Combustion of Coal & Dolochar		
Fuel Used	: Coal & Dolochar	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Coal - 105 TPD & Dolochar - 60 TPD		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	102.0
2.	Barometric Pressure	mm of Hg	IS 11255 (Part 1)	750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	12.02
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	1269973.5
5.	a) Sulfur dioxide	mg/Nm ³	IS 11255 (Part 2)	70.20
	b) Sulfur dioxide (at 6% O ₂)	mg/Nm ³		86.31
6.	a) Oxides of Nitrogen	mg/Nm ³	IS 11255 (Part 7)	62.50
	b) Oxides of Nitrogen (at 6% O ₂)	mg/Nm ³		76.84
7.	Carbon dioxide by ORSAT App	%	IS 13270	10.4
8.	O ₂ by Orsat	%	USEPA Method 3	8.8
9.	Carbon Monoxide	%	IS 13270	<1.0
10.	a) Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	24.50
	b) Particulate Matter (at 6% O ₂)	mg/Nm ³		30.12

Remarks : Result relates only to the sample tested.

Reviewed By:

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory:

(Dr. Ajoy Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORMAT NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of Issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/V
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/V/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Cooler Discharge of Kiln 1, 2, 3 & 4	Height of Stack (mtr.) (from G. L.)	: 30.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.5
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 10.0
Capacity	: Rated - 100 TPD (each) [Running - 100 TPD x 2]		
Emission Due to	: During Process		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
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)	: 39.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	: 750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	: 12.65
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	: 8417.57
5.	Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	: 28.25
Remarks	: During monitoring Cooler Discharge No. 1 & 4 was running. : Result relates only to the sample tested.			

Reviewed By :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

H. O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189, 190, 192, 186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/VI
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/VI/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fe-Ore Pellet Formation Stack (No.1)	Height of Stack (mtr.) (from G. L.)	: 50.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 3.0
Materials of Construction	: R.C.C	Height of sampling port (mtr.) (from G.L.)	: --
Capacity	: 2500 MT/Day		
Emission Due to	: Combustion of Producer Gas & PCI Coal		
Fuel Used	: Producer Gas & PCI Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Producer Gas - 2.7 Nm ³ /hr. & PCI Coal - 2.5 MT/hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	118.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	750.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	20.30
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	382168.87
5.	Sulfur dioxide	mg/Nm ³	IS 11255 (Part 2)	455.59
6.	Carbon dioxide by ORSAT App	%	IS 13270	8.6
7.	Carbon Monoxide	%	IS 13270	<1.0
8.	Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	26.54

Remarks : Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



TEST REPORT

FORM NO.: ENV/FM/38

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Plant
Address	: Vill - Mahuda, P.O. - Rukni, P.S. - Para, Purulia, Pin - 723145	Sampling date	: 04.09.2025
		Date of received	: 11.09.2025
		Date (s) of analysis	: 11.09.2025 - 12.09.2025
		Date of issue	: 13.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/02	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/28/Sep./A/XVII
Sample Testing Location	: Permanent Testing	Report No.	: ENV/28/Sep./TR(A)/XVII/25-26
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Hoods Over Induction Furnace (attached to common stack)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	35.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	1.21
Capacity	:	15 T/Charging (each furnace)	Height of sampling port (mtr.) (from G.L.)	:	22.0
Emission Due to	:	Melting of Sponge Iron, Pig Iron Scraps etc.			
Fuel Used	:	N.A. (Electrically Operated)	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Spark Arrestor & Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 60.0
2.	Barometric Pressure	mm of Hg.	IS 11255 (Part 1)	: 754.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 1)	: 10.50
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part 1)	: 9473.47
5.	Particulate Matter	mg/Nm ³	IS 11255 (Part 1)	: 26.38
Remarks : Result relates only to the sample tested.				

Reviewed By :

Indrani Bhattacharya
 (Indrani Bhattacharya)
 (Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul
 (Dr. Ajoy Paul)
 (Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
 Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
 Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
 Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
 Overseas : • UAE • Qatar • Netherlands

ANNEXURE- 9



ENVIROCHECK

Recognised by MoEF & CC, WBPCB & JSPCB

Accredited by NABL (ISO/IEC 17025:2017) & NABET (CERTIFICATE NO. - NABET/EIA/2326/IA 0117)

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



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 03.09.2025
		Date of Received	: 11.09.2025
		Date(s) of Analysis	: 11.09.2025 - 15.09.2025
		Date of Issue	: 17.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/03	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Outlet	Sample Condition	: Sealed
		Sample ID No.	: ENV/21/Sep./W/II
Report No.	: ENV/21/Sep./TR[W]/II/25-26	Testing Location	: Permanent Testing

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	IS 3025 Part 11	-	7.18	5.5 - 9.0
2.	Total Suspended Solids	IS 3025 Part 17	mg/l	32.89	100.0
3.	Oil & Grease	IS 3025 Part 39	mg/l	4.64	10.0
4.	Chemical Oxygen Demand	IS 3025 Part 58	mg/l	93.62	250.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	IS 3025 Part 44	mg/l	<2.0	30.0

Remarks : a) Limit value as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

b) Result relates only to the sample tested.

c) Sample collected by Envirocheck and sent lab for testing in sealed condition.

Reviewed By :

Indrani Bhattacharyya

(Indrani Bhattacharyya)
(Dy. Technical Manager)

Authorised Signatory :

Dr. Ajoy Paul

(Dr. Ajoy Paul)
(Quality Manager)

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands

ANNEXURE-10



ENVIROCHECK

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



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Client	: Bravn Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill - Mohuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 03.09.2025
		Date of Received	: 10.09.2025
		Date(s) of Analysis	: 10.09.2005 - 15.09.2025
		Date of Issue	: 17.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/04	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ground Water
Location	: Tube Well of Mahuda Village	Sample Condition	: Sealed
		Sample ID No.	: ENV/08/Sep./SCGW/1
Report No.	: ENV/08/Sep./TR(SCGW)/1/25-26	Testing Location	: Permanent Testing

PARAMETERS	METHOD	UNIT	RESULTS
1. Colour	IS 3025 Part 4	Hazen	1.0
2. Odour	IS 3025 Part 5	--	Agreeable
3. pH	IS 3025 Part 11	--	7.46
4. Taste	IS 3025 Part 7	--	Agreeable
5. Turbidity	IS 3025 Part 10	NTU	1.80
6. Total Dissolved Solids	IS 3025 Part 16	mg/l	484.0
7. Calcium	IS 3025 Part 40	mg/l	28.05
8. Chloride	IS 3025 Part 32	mg/l	59.98
9. Iron	IS 3025 Part 65	mg/l	0.62
10. Magnesium	IS 3025 Part 65	mg/l	12.0
11. Nitrate	IS 3025 Part 34 Sec 1	mg/l	3.50
12. Sulfate	IS 3025 Part 24 Sec 1	mg/l	46.2
13. Total Alkalinity	IS 3025 Part 23	mg/l	80.0
14. Total Hardness	IS 3025 Part 21	mg/l	120.0
15. Arsenic	IS 3025 Part 65	mg/l	<0.0014
16. Chromium	IS 3025 Part 65	mg/l	<0.00001
17. Boron	IS 3025 Part 65	mg/l	<0.0085

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490, Fax : 033-25299141
Laboratory : 189, 190, 192, 188 & 51 Rastraguru Avenue, Kolkata - 700028 (033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Client	: Bravn Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill - Mohuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 03.09.2025
		Date of Received	: 10.09.2025
		Date(s) of Analysis	: 10.09.2005 - 15.09.2025
		Date of Issue	: 17.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/04	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ground Water
Location	: Tube Well of Rukni Village	Sample Condition	: Sealed
		Sample ID No.	: ENV/08/Sep./SCGW/II
Report No.	: ENV/08/Sep./TR(SCGW)/II/25-26	Testing Location	: Permanent Testing

PARAMETERS	METHOD	UNIT	RESULTS
1. Colour	IS 3025 Part 4	Hazen	1.0
2. Odour	IS 3025 Part 5	--	Agreeable
3. pH	IS 3025 Part 11	--	7.52
4. Taste	IS 3025 Part 7	--	Agreeable
5. Turbidity	IS 3025 Part 10	NTU	1.70
6. Total Dissolved Solids	IS 3025 Part 16	mg/l	460.0
7. Calcium	IS 3025 Part 40	mg/l	29.65
8. Chloride	IS 3025 Part 32	mg/l	60.98
9. Iron	IS 3025 Part 65	mg/l	0.56
10. Magnesium	IS 3025 Part 65	mg/l	10.08
11. Nitrate	IS 3025 Part 34 Sec 1	mg/l	2.80
12. Sulphate	IS 3025 Part 24 Sec 1	mg/l	56.8
13. Total Alkalinity	IS 3025 Part 23	mg/l	122.0
14. Total Hardness	IS 3025 Part 21	mg/l	116.0
15. Arsenic	IS 3025 Part 65	mg/l	<0.00014
16. Chromium	IS 3025 Part 65	mg/l	<0.0001
17. Boron	IS 3025 Part 65	mg/l	<0.0085

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Indrani Bhattacharyya)
(Dy. Technical Manager)

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25467490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 [033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands

ANNEXURE-11



ENVIROCHECK

Recognized by MoEF&CC, WBPCB & JSPCB
Accredited by NABL [ISO/IEC 17025:2017]
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

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

MONITORED BY :
ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/07/Sep/ITR/N/i/25-26

Sampling Locations :	Railway Siding Area (North Side)	Date of Study :	03/09/2025
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	50.1	52.9	51.29	52.47
7:00 AM to 8:00 AM	51.9	53.7	52.10	
8:00 AM to 9:00 AM	53.8	55.6	54.34	
9:00 AM to 10:00 AM	54.2	56.7	55.46	
10:00 AM to 11:00 AM	51.6	55.7	54.12	
11:00 AM to 12:00 PM	52.3	54.6	53.60	
12:00 PM to 1:00 PM	49.3	53.4	51.82	
1:00 PM to 2:00 PM	53.7	56.3	55.19	
2:00 PM to 3:00 PM	53.2	58.9	56.64	
3:00 PM to 4:00 PM	47.9	53.7	51.70	
4:00 PM to 5:00 PM	46.8	49.8	48.55	
5:00 PM to 6:00 PM	45.8	50.6	47.83	
6:00 PM to 7:00 PM	46.2	50.2	48.94	
7:00 PM to 8:00 PM	45.8	49.7	47.12	
8:00 PM to 9:00 PM	43.8	47.6	45.64	
9:00 PM to 10:00 PM	42.5	46.4	44.16	

Date of Study :	03/09/2025 To 04/09/2025	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time (hrs.)	L_{min}	L_{max}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	41.9	43.7	42.53	47.09
11:00 PM to 12:00 AM	39.5	42.6	41.67	
12:00 AM to 1:00 AM	40.6	45.3	43.26	
1:00 AM to 2:00 AM	41.8	46.2	44.34	
2:00 AM to 3:00 AM	40.3	44.9	42.59	
3:00 AM to 4:00 AM	44.3	51.6	48.64	
4:00 AM to 5:00 AM	45.7	53.2	51.24	
5:00 AM to 6:00 AM	46.1	53.9	50.19	

L_{min} : Minimum Noise level

L_{max} : Maximum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajay Paul

Envirocheck Seal
Date : 30/09/2025



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

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone : 033-25792891/25497490
Laboratory : 51, 185, 186, 189, 190, 192 & 326/3 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck50@gmail.com / info@envirocheck.in / Website : www.envirocheck.in





ENVIROCHECK

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



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 : ENV/07/Sep/TRIN/11/25-26

Sampling Locations :	Near Administrative Building (Eastern Side)	Date of Study :	03/09/2025
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L_{max}	L_{min}	L_{eq}	Day time L_{eq}
6:00 AM to 7:00 AM	50.1	54.7	52.48	54.70
7:00 AM to 8:00 AM	51.9	55.3	53.29	
8:00 AM to 9:00 AM	52.7	56.1	54.19	
9:00 AM to 10:00 AM	53.0	57.8	55.32	
10:00 AM to 11:00 AM	54.7	58.2	56.12	
11:00 AM to 12:00 PM	52.3	54.6	53.60	
12:00 PM to 1:00 PM	54.0	58.3	56.66	
1:00 PM to 2:00 PM	54.2	58.7	57.01	
2:00 PM to 3:00 PM	54.0	59.1	57.26	
3:00 PM to 4:00 PM	53.6	59.4	57.40	
4:00 PM to 5:00 PM	52.4	58.5	56.44	
5:00 PM to 6:00 PM	49.1	50.6	49.91	
6:00 PM to 7:00 PM	48.7	55.3	53.15	
7:00 PM to 8:00 PM	46.2	53.1	51.25	
8:00 PM to 9:00 PM	43.5	52.6	49.55	
9:00 PM to 10:00 PM	42.8	50.8	48.61	

Date of Study :	03/09/2025 To 04/09/2025	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time (hrs.)	L_{max}	L_{min}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	40.5	43.7	42.51	44.66
11:00 PM to 12:00 AM	39.7	42.6	41.74	
12:00 AM to 1:00 AM	41.6	45.9	43.64	
1:00 AM to 2:00 AM	43.5	46.4	44.53	
2:00 AM to 3:00 AM	42.9	45.3	41.05	
3:00 AM to 4:00 AM	44.7	46.9	45.84	
4:00 AM to 5:00 AM	45.2	47.2	46.22	
5:00 AM to 6:00 AM	46.4	49.5	47.52	

L_{min} : Minimum Noise level

L_{max} : Maximum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajay Paul

Envirocheck Seal
Date : 30/09/2025



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

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone : 033-25792891/25497490
Laboratory : 51, 185, 186, 189, 190, 192 & 326/3 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck50@gmail.com / info@envirocheck.in / Website : www.envirocheck.in





ENVIROCHECK

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



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 : ENV/07/Sep/ITR/N/II/25-26

Sampling Locations :	Mahuda Village (South Side)	Date of Study :	03/09/2025
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	49.2	52.5	50.17	51.15
7:00 AM to 8:00 AM	49.1	53.1	52.28	
8:00 AM to 9:00 AM	49.5	53.7	51.44	
9:00 AM to 10:00 AM	50.1	54.3	52.72	
10:00 AM to 11:00 AM	51.6	55.7	53.74	
11:00 AM to 12:00 PM	52.3	54.6	53.60	
12:00 PM to 1:00 PM	49.3	53.4	51.82	
1:00 PM to 2:00 PM	53.7	56.3	55.19	
2:00 PM to 3:00 PM	48.6	51.3	50.16	
3:00 PM to 4:00 PM	47.9	53.7	51.70	
4:00 PM to 5:00 PM	46.8	49.8	48.55	
5:00 PM to 6:00 PM	45.8	50.6	48.83	
6:00 PM to 7:00 PM	44.3	49.1	47.52	
7:00 PM to 8:00 PM	43.0	47.5	45.63	
8:00 PM to 9:00 PM	42.6	46.4	44.13	
9:00 PM to 10:00 PM	41.9	45.2	43.09	

Date of Study :	03/09/2025 To 04/09/2025	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time (hrs.)	L_{min}	L_{max}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	41.4	43.7	42.82	43.79
11:00 PM to 12:00 AM	39.5	42.1	41.65	
12:00 AM to 1:00 AM	38.0	41.6	40.27	
1:00 AM to 2:00 AM	38.3	42.0	40.54	
2:00 AM to 3:00 AM	39.1	43.6	41.72	
3:00 AM to 4:00 AM	41.5	43.0	42.52	
4:00 AM to 5:00 AM	44.7	48.6	46.69	
5:00 AM to 6:00 AM	45.1	49.7	47.52	

L_{min} : Minimum Noise level

L_{max} : Maximum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)

Dr. Ajoy Paul

Envirocheck Seal

Date : 30/09/2025



Certified by : (Signature)

Dr. S. B. Chowdhury

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone : 033-25792891/23497490
Laboratory : 51, 185, 186, 189, 190, 192 & 326/3 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck50@gmail.com / info@envirocheck.in / Website : www.envirocheck.in





ENVIROCHECK

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



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 - ENV/07/Sep/TR/N/V/25-26

Sampling Locations :	near Main Gate (Western Side)	Date of Study :	03/09/2025
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	51.6	55.3	53.93	53.76
7:00 AM to 8:00 AM	50.8	54.2	52.82	
8:00 AM to 9:00 AM	53.2	55.1	54.46	
9:00 AM to 10:00 AM	52.1	56.7	54.98	
10:00 AM to 11:00 AM	55.3	59.1	57.70	
11:00 AM to 12:00 PM	52.9	54.3	53.66	
12:00 PM to 1:00 PM	51.6	53.8	52.84	
1:00 PM to 2:00 PM	53.5	59.9	57.79	
2:00 PM to 3:00 PM	52.4	58.3	56.28	
3:00 PM to 4:00 PM	52.8	58.7	56.68	
4:00 PM to 5:00 PM	45.5	49.6	48.02	
5:00 PM to 6:00 PM	43.4	46.2	45.15	
6:00 PM to 7:00 PM	42.0	46.0	44.45	
7:00 PM to 8:00 PM	41.1	44.3	42.99	
8:00 PM to 9:00 PM	41.6	43.7	42.78	
9:00 PM to 10:00 PM	40.2	42.5	41.50	

Date of Study :	03/09/2025 To 04/09/2025	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time (hrs.)	L_{min}	L_{max}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	38.1	41.6	40.19	45.89
11:00 PM to 12:00 AM	37.5	40.2	39.06	
12:00 AM to 1:00 AM	39.6	41.4	40.59	
1:00 AM to 2:00 AM	38.4	42.7	41.06	
2:00 AM to 3:00 AM	49.7	51.4	50.63	
3:00 AM to 4:00 AM	50.8	52.0	51.98	
4:00 AM to 5:00 AM	51.5	53.7	52.74	
5:00 AM to 6:00 AM	52.8	55.6	54.42	

L_{min} : Minimum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajay Paul

Envirocheck Seal
Date : 30/09/2025



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

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone : 633-25792891/25487495
Laboratory : 51, 185, 186, 189, 190, 192 & 326/3 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck56@gmail.com / info@envirocheck.in / Website : www.envirocheck.in



ANNEXURE-12



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



FORMAT NO.: ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/1/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

Time : 10:00 - 10:20 A.M

DAY TIME

1. Location : Pellet Plant Area					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	69.5	71.4	70.55	East Side
02.	dB(A)	62.3	70.8	68.36	West Side
03.	dB(A)	65.2	70.4	68.54	North Side
04.	dB(A)	67.3	72.2	70.41	South Side
Average dB(A) Leq				69.46	

>End of Report<

Reviewed By:

Approved By:

Dy. Quality Manager

Quality Manager





ENVIROCHECK

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



FORMAT NO. : ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/H/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

Time : 10:30 - 10:50 A.M

DAY TIME

2. Location : DRI Area (100 TPD)					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	67.4	71.3	69.77	East Side
02.	dB(A)	70.0	75.2	73.34	West Side
03.	dB(A)	72.9	75.7	74.52	North Side
04.	dB(A)	71.2	76.0	74.23	South Side
Average dB(A) Leq				72.96	

>End of Report<

Reviewed By:

Jolake

Dy. Quality Manager

Approved By:

Rand

Quality Manager





ENVIROCHECK

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



FORMAT NO.: ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/III/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

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

DAY TIME

3. Location : Cooler Discharge Area					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	65.0	70.3	68.41	East Side
02.	dB(A)	71.2	76.4	74.54	West Side
03.	dB(A)	67.8	73.7	71.68	North Side
04.	dB(A)	70.5	74.5	72.95	South Side
Average dB(A) Leq				71.89	

>End of Report<

Reviewed By:

Approved By:

Dy. Quality Manager

Quality Manager





ENVIROCHECK

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



FORMAT NO. : ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/IV/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

Time : 10:00 - 10:20 A.M

DAY TIME

4. Location : DRI Area (350 TPD)					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	64.2	70.8	68.65	East Side
02.	dB(A)	73.5	76.2	75.06	West Side
03.	dB(A)	70.9	78.2	75.93	North Side
04.	dB(A)	71.4	75.6	73.99	South Side
Average dB(A) Leq				73.40	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager





ENVIROCHECK

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



FORMAT NO. : ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/V/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

Time : 10:00 - 10:20 A.M

DAY TIME

5. Location : SMS Area					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	63.9	72.1	69.70	East Side
02.	dB(A)	64.7	73.8	71.29	West Side
03.	dB(A)	61.9	72.5	69.85	North Side
04.	dB(A)	64.0	71.2	68.95	South Side
Average dB(A) Leq				69.94	

>End of Report<

Reviewed By:

Approved By:

Dy. Quality Manager

Quality Manager





ENVIROCHECK

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



FORMAT NO.: ENV/TM/33

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/02
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/07/Sep/(TR)N/VI/25-26
8.	Date of Study	: 03/09/2025
9.	Reporting Date	: 30/09/2025
10.	Method No.	: IS 15575 (Part 2), 2022
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	: Mr. Kuntal Saha

RESULT OF NOISE LEVEL STUDY

Time : 10:00 - 10:20 A.M

DAY TIME

6. Location : AFBC Boiler Area

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	67.7	72.2	70.51	East Side
02.	dB(A)	66.8	75.0	72.60	West Side
03.	dB(A)	73.0	74.7	73.93	North Side
04.	dB(A)	72.6	77.2	75.48	South Side
Average dB(A) Leq				73.13	

>End of Report<

Reviewed By:

Approved By:

Dy. Quality Manager

Quality Manager



ANNEXURE-13

Drishti Fire Bricks



Tel. No. : 0341 - 5520414
Mob. No. : 994341-00780
994341-72721, 9932948158

MANUFACTURERS OF HIGH QUALITY REFRACTORIES

Inanpur, P.O. : Digba, P.S. : Neturia
Dist. : Purulia (W. B.) , Pin - 723121

Ref. No. CH/16-17/P.BAND

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.- Digba, 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.

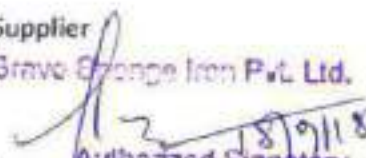
And whereas The SUPPLIER expresses their desire to enter into an agreement with the
PURCHASER for utilization its fly ash in brick manufacturing.

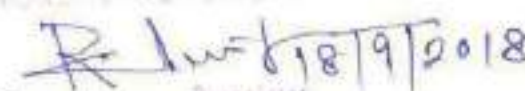
NOW THIS DEED OF AGREEMENT WITNESSES THE TERMS AND CONDITIONS AS FOLLOWS:

1. That the Agreement shall come into force immediately and shall remain valid for a period of
8 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:

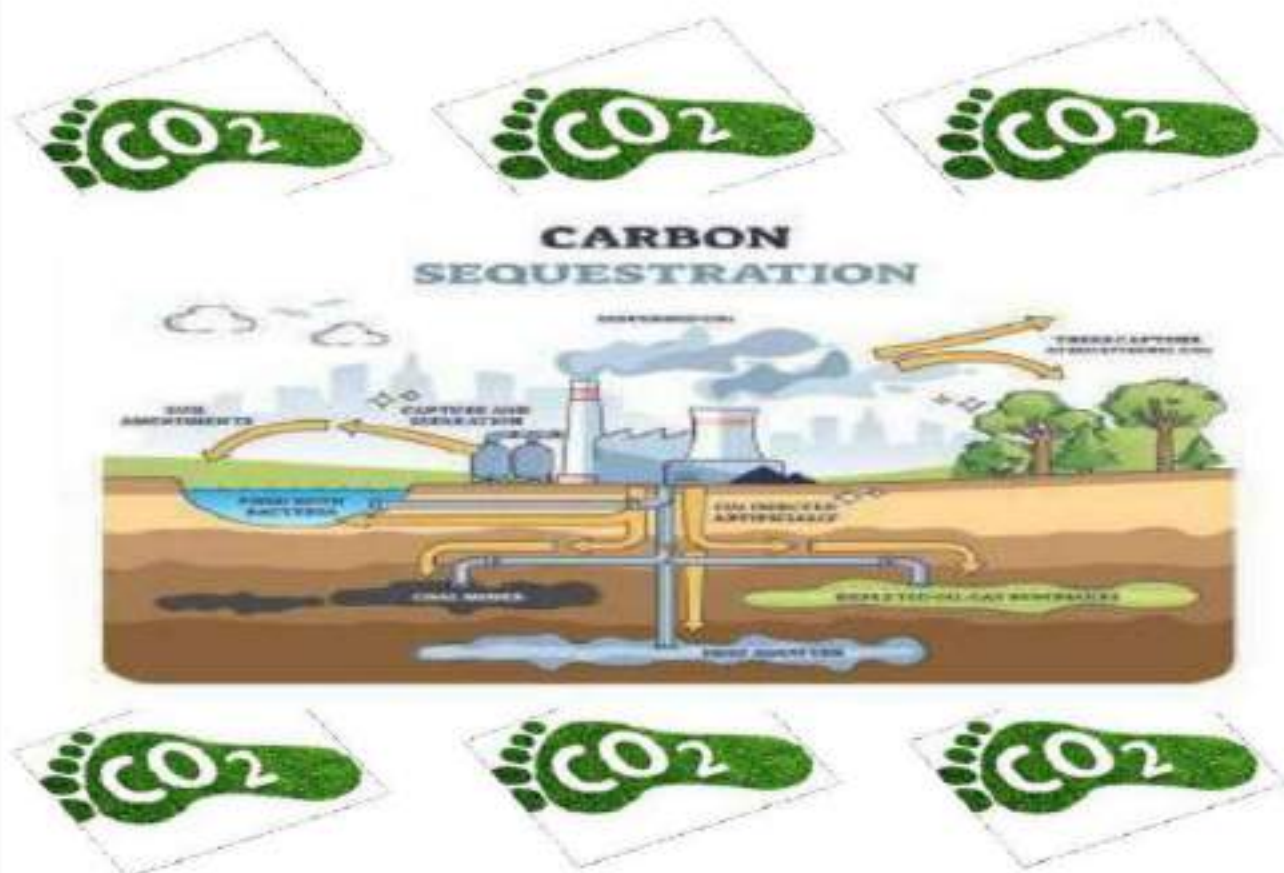
Supplier
Bravo Bronze Iron Pvt. Ltd.

1. Authorized Signatory

PURCHASER
DIAMOND FLY ASH PRIVATE LIMITED

2. Proprietor

ANNEXURE-14

GREEN HOUSE GAS STUDY REPORT

(CARBON FOOTPRINT AND CARBON SEQUESTRATION)



BY
BRAVO SPONGE IRON PRIVATE LIMITED

Located at:
Village: Mahuda, P.O.: Rukni, District: Purulia,
West Bengal-723145

INTRODUCTION

In 2015, the global response to the threat of climate change took a step forward when 190 nations adopted the Paris Agreement. In 2019, the United Nations announced that over 60 countries including the United Kingdom and the European Union (with the exception of Poland) had committed to carbon neutrality by 2050. Moreover, some nations have pledged to work toward earlier dates. Together, these agreements have led to growing pressure to pursue decarbonization across all industrial sectors.

India's Nationally Determined Contribution (NDC's) primarily targets by 2030 a reduction in the emissions intensity of Gross Domestic Product (GDP) by 33 to 35 percent; achieving about 40 percent installed power capacity from non-fossil fuel-based energy resources; energy efficiency; and creating an additional carbon sink of 2.5-3 billion tons of carbon dioxide equivalent through additional forest and tree cover.

Steel is one of the core pillars of today's society and, as one of the most important engineering and construction materials, it is present in many aspects of our lives. However, the industry now needs to cope with pressure to reduce its carbon footprint from both environmental and economic perspectives. Currently the steel industry is among the three biggest producers of carbon dioxide, with emissions being produced by a limited number of locations; steel plants are therefore a good candidate for decarbonization. While the industry must adapt to these new circumstances, it can also use them as a chance to safeguard its license to continue operating in the long term.

The direct CO₂ intensity of crude steel production has been relatively constant in the past few years. In contrast, in the Net Zero Emissions by 2050 Scenario it falls an average 4% annually between 2020 and 2030. Achieving this reduction and maintaining it after 2030 will not be easy. Potential for energy efficiency improvements will likely soon be exhausted. Thus, innovation in the upcoming decade will be crucial to commercialise new low-emissions processes, including those that integrate CCUS and hydrogen, to realise the long-term transformational change required. Governments can help by providing RD&D funding, creating a market for near-zero-emissions steel, adopting policies for mandatory CO₂ emissions reductions, expanding international co-operation and developing supporting infrastructure.

In this report, the carbon footprints from different factors of Bravo Sponge iron private limited will be determined and the carbon sequestration data from the unit will be accessed to have an insight on annual carbon emissions from the unit. This report also provides measures to further reduce the carbon emissions from the unit through implementation of new cleaner technological advances and sustainable environment methods.

CARBON FOOTPRINT

Carbon footprint (CF) is used to measure the impact of human activities on natural ecosystems, the relative size of human consumption on ecosystems, and it emphasizes on the effect of carbon emission of human energy activities on atmospheric environment. Based on different industries, different levels have been formulated and different greenhouse gases have been considered. Six kinds of greenhouse gas emissions such as CO₂, CH₄ and N₂O produced by human activities in the country have been estimated. The carbon footprint is characterized in three levels: the first level comes from the direct carbon emissions of the institution itself; the second level expands the boundary to the direct carbon emissions of the Department that provides the energy sector; the third level includes the direct and indirect carbon emissions of the whole life cycle of the supply chain.

Based on production data of Bravo sponge iron private limited and CO₂ Emission Factors for steel industry (Source: Report on Greenhouse Gas Emissions from Major Industrial Sources – III Iron and Steel Production by International Energy Agency and USEPA;), the CO₂ emissions are calculated and carbon footprints are tracked in the unit. Following is the carbon emission calculations from Bravo sponge iron private limited based on the emission factors.

1. Sponge Iron Unit (DRI):

The following table shows the CO₂ emissions from the operation of the DRI units.

Table 01: CO₂ e Emission from Sponge iron plant

Unit	Production (TPA)	Emission Factor (ton CO ₂ /Ton of steel)	CO ₂ e Emissions of the plant (TPA)
DRI (3x100 TPD, 1x 95 TPD & 1x350 TPD)	1,16,275.08	0.7	81,392.56

* Emission Factor based on 2006 IPCC Guidelines for National Greenhouse Gas Inventories.

2. Induction Furnace:

The Following table shows the CO₂ emissions from the operation of 2x15 T Induction furnace.

Table 02: CO₂ e Emission from Induction furnace

Unit	Raw Materials	Quantity (TPA)	Carbon Content (W/W)	Total Carbon (TPA)	Carbon Retained in Billet (TPA)	Carbon Burnt (TPA)	CO2e Emissions of the plant (TPA)
SMS	Pig Iron	8,473.63	0.04	338.95	147.74	1,058.64	3,885.21
	Sponge Iron	42,601.26	0.02	852.03			
	Ferro Alloys	770.60	0.02	15.41			
	Scrap	7,487.17	0.04	299.49			
	Total BILLET		49,247.36				

3. Pellet Plant:

The Following table shows the CO₂ emissions from the operation of 2 x 0.85 MTPA Pellet Plant.

Table 03: CO₂ e Emission from Pellet plant

Configuration	Production Capacity	Emission Co-efficient	CO ₂ e Emission of the plant (TPA)
2 X 0.85 MTPA	7,58,600.00	0.03	22,758.00

4. Captive Power Plant (WHRB+AFBC 23.9 MW):

To meet the power requirement 5 MW of AFBC boiler is being operating. Dolochar produced as a by- product from the existing DRI units will be fully utilise as a fuel in proposed AFBC Boiler and coal will be used as fuel in AFBC boiler as per requirement of power.

The Following table shows the CO₂ emissions from the AFBC boiler during the operation.

Table 04: CO₂ e Emission from Captive Power Plant

Required Fuel	Quantity TPA	Carbon Content (W/W)	Combustion Rate	CO ₂ e Emissions of the plant (TPA)
Coal	4,325.91	0.67	0.95	10,105.14
Dolochar	27,421.52	0.25	0.95	23,901.28
Total CO ₂ e Emissions of the plant (T/Year)				34,006.42

Thus, the cumulative CO₂e emitted from the existing project with sum of table 1-4 is **1,30,811.44 tons CO₂e/ Annum.**

(Reference Point: Source: Report on Greenhouse Gas Emissions from Major Industrial Sources –III Iron and Steel Production by International Energy Agency and USEPA; Technical Support Document for the Ferroalloy Production Sector; Proposed Rule for Mandatory Reporting of Greenhouse Gases.)

❖ Mitigation measures to reduce Carbon Footprints:

With the growing concern over climate change, steel makers are faced with the challenge of finding ways of lowering CO₂ emissions without seriously undermining process efficiency or considerably adding to costs. The iron and steel industry are the largest industrial source of CO₂ emissions due to the energy intensity of steel production, its reliance on carbon-based fuels and reductants.

The technological compendium of industries suggests the need to shift from traditional carbon intensive technologies for iron and steel production to low-carbon environment friendly technologies. Following are the measures which shall be adopted in coming years by the industries to reduce the overall carbon footprints

- Regenerative Burners in Re-heating Furnaces of Rolling Mills after its implementation.
- Hot charging process of continuously cast products at higher temperature directly to Rolling Mills which eliminate the need for re-heating furnaces.

- Scoping the minimum use of Reheating Furnaces
- Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors
- Minimizing energy consumption and improving the energy efficiency of the process
- Sufficient and affordable renewable energy needs to be implemented in the industry
- Installing state of art cleaner technologies
- Afforestation and Plantation
- The continuation and reinforcement of the promotion of sustainable means of transport for commuters, such as bicycles, public transport and, most of all, car-pooling would contribute to reducing carbon emissions.

❖ Measures being taken by Bravo Sponge Iron Pvt. Limited:

The Company has taken some plan under this expansion proposal, which shall be considered as attempts towards clean technology.

- Promoting minimum use of vehicles during plant visit.
- Installation solar light system on the roof top of administrative building ect. for office lighting purpose.
- Increasing afforestation in and around the factory premises.
- Promotion of adequate affordable renewable energy in the industry.
- The use of sensible heat generated during the sponge-iron-making process for power generation at CPP through WBRB which falls under criteria of green energy generation.
- Thus, by using the green energy through WHRB BSIPL shall contribute in carbon sequestration with restricting the CO₂ e Emission. The United Nations Framework Convention on Climate Change also considers electricity generated through WHR System as green, therefore, such projects are eligible for earning carbon credits.
- BSIPL has purchased 08 nos. of EV (Electric Vehicle) cars and re-charging of these batteries shall be through electricity generated from solar panel planned to be installed.

❖ Attempts to reduce Carbon emission/to bring down Carbon intensity:

Bravo Sponge Iron Pvt. Limited shall prefer direct charging of hot billets to rolling mills from SMS and it shall be executed with installation of rolling mills. This attempt will remarkably reduce dependency on re-heating furnace and burning of fossil fuel like LSHS/LDO and consequently reduce the CO₂ emission. Company shall always scope the optimal use of reheating furnaces proposed in expansion project.

Max. Recycling of iron scrap to obtain molten metal from induction furnaces.

These moves should be considered as its positive attempts to bring down Carbon intensity.

Moreover, the company proposes uses of Variable Frequency Drive ID Fans, Energy Monitoring & Management System, Regenerative Burners in Re-heating Furnace of Rolling Mills, Adoption of Variable Voltage Variable Frequency (VVVF) Drives for high capacity electric motors, Installing state of art cleaner technologies.

Carbon Sequestration and Carbon Credit

Carbon sequestration is defined as the removal of carbon dioxide from the atmosphere and storage in a system. Carbon sequestration is gaining its importance in carbon credit and trading. Identification of many CDM (Clean Development Mechanism) projects has offered special flexibility and relevance in the carbon reduction and has helped improve the national economy. These projects have estimated the quantity of carbon in various systems and their dynamics associated with it. With these estimations, several strategies and formulations have evolved quantifying and reducing the carbon foot print.

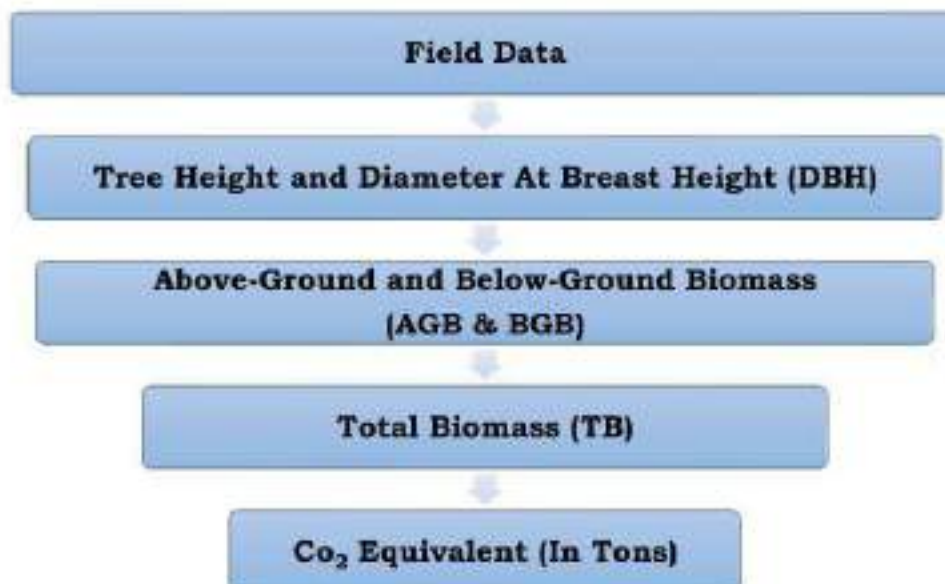
Carbon credit by recycling and reuse of iron scrap in induction furnaces of SMS, BSIPL shall reduce the carbon footprint (Ref: World Steel Association Fact Sheet on use of return & purchased scrap), and by using the green energy through WHRB BSIPL shall contribute in carbon sequestration with restricting the CO₂ e Emission up to a considerable amount.

No doubt carbon sequestration can be achieved through various systems, but trees form to be the largest terrestrial sink of carbon dioxide. Therefore, the plantation is granted as the most efficient and biggest terrestrial carbon sequestration method. Out of the five most important terrestrial carbon sequestration system (above ground biomass, below ground biomass, litter, wood debris, and soil organic carbon), the above and below ground biomass are the top two in the pool.

Biomass of trees develops when plants take in carbon dioxide from the atmosphere in the presence of sunlight and convert them into starch in their tissues. Several studies have revealed that the carbon content in these tissues is half their biomass. So, with their growth and development, trees go on sequestering CO₂ from the atmosphere and store in their tissues as carbohydrates. This continues until the death of the tree. The rate of carbon sequestration is however maximum during the early stages of growth in trees when trees try to produce more and more amount of food to grow, meet the energy required by them and to stabilize in their respective environmental conditions.

Estimation of Carbon Sequestration Potential of Trees

There are generally two methods to estimate carbon sequestration in plant biomass. Direct method that involves cutting of the tree and Indirect method that is calculated through the above ground biomass and below ground biomass method without slashing the tree. Being ethically and ecologically sound, the second method was preferred for the present study.



Methodology for Carbon Sequestration from Trees

The Girth at Breast Height (GBH) of the trees was measured using a measuring tape at a height of 1.96 m from the ground surface. The height of the trees was measured using reference method (referring to the height of a nearby building or tower), pencil method and angle method as per the convenience.

The above ground biomass (AGB) and below ground biomass (BGB) were then calculated as per the formula is given below.

$$\text{Basal area (m}^2\text{)} = (\text{GBH})^2/4\pi$$

$$\text{Bio-volume (m}^3\text{)} = \text{Basal area} \times \text{Height of the tree}$$

$$\text{AGB (kg)} = \text{Bio-volume} \times \text{Wood density (kg/m}^3\text{)}$$

$$\text{BGB (kg)} = \text{AGB} \times 0.26 \text{ (Where 0.26 = Root to Shoot ratio)}$$

$$\text{Total Biomass (TB) in kg/tree} = \text{AGB} + \text{BGB}$$

$$\text{Total Carbon Sequestered (TC) in kg/tree} = \text{TB}/2$$

The Carbon content in trees was taken on an average as 50% of the tree biomass. The wood density of the individual tree species was derived from secondary sources. The CO₂ equivalent was calculated using the following formula:

$$\text{CO}_2\text{e} = (\text{TC} \times 44)/12$$

Where, 44 and 12 are the molecular and atomic weight of CO₂ and C, respectively.

Bravo Sponge Iron Pvt. Limited has cover more than 33% (31.73Ha.) land of total project area with plantation of 16900 plants. The carbon sequestration by plantation shown in the following table:..

Table 05:**CARBON SEQUESTRATION THROUGH GREENBELT DEVELOPMENT IN AND AROUND THE PLANT PREMISES OF BRAVO SPONGE IRON PVT. LIMITED**

Sl. No.	Plant Species	Local Name	Periphery (cm.)	Basal Area (M ²)	Height (M)	Basal Volume (M ³)	Density (Kg/M ³)	AGB (Kg)	BGB (Kg)	TB (Kg)	TC (Kg)	CO ₂ e (Kg)	No. Tree	Total CO ₂ e (TPA)
1	Azadirachta indica	Neem	68	0.037	5.5	0.239	900	215.37	56.00	271.37	135.68	497.50	1200	597
2	Polyalthia longifolia	Debdaru	30	0.007	4	0.029	875	25.08	6.52	31.60	15.80	57.93	105	6
3	Acacia auriculiformis	Sonajhuri	48	0.018	5	0.092	625	57.32	14.90	72.22	36.11	132.41	375	50
4	Dalbergia sissoo	Shishu	59	0.028	8	0.222	800	177.38	46.12	223.50	111.75	409.75	120	49
5	Ficus benghalensis	Bot	78	0.048	7	0.339	700	237.35	61.71	299.06	149.53	548.28	700	384
6	Ficus religiosa	Peepal	95	0.072	10	0.719	700	502.99	130.78	633.77	316.88	1161.91	850	988
7	Anthocephalus cadamba	Kadam	59	0.028	6	0.166	600	99.77	25.94	125.71	62.86	230.47	2200	507
8	Mimusops elengi	Bakul	58	0.027	3.5	0.094	1008	94.49	24.57	119.06	59.53	218.27	80	17
9	Aibizzia lebbek	Sreesb	85	0.058	8	0.460	630	289.92	75.38	365.30	182.65	669.72	2100	1,406
10	Conocarpus	Conocarpus	54	0.023	7	0.163	580	94.26	24.51	118.77	59.38	217.74	2500	544
11	Caesalpinia pulcherrima	Radhachura	64	0.033	4.5	0.147	530	77.78	20.22	98.00	49.00	179.67	3000	539
12	Delonix regia	Krishnachura	54	0.023	4.5	0.104	510	53.28	13.85	67.13	33.57	123.08	150	18
13	Lagerstroemia speciosa	Jarai	45	0.016	3	0.048	700	33.86	8.80	42.66	21.33	78.22	160	13
14	Milletia pinnata	Karanj	61	0.030	4	0.119	680	80.58	20.95	101.53	50.77	186.14	50	9
15	Alstonia scholaris	Chhatim	72	0.041	4	0.165	700	115.57	30.05	145.62	72.81	266.97	70	19
16	Wodyetia bifurcata	Fox Tail Palm	45	0.016	2.8	0.045	540	24.38	6.34	30.72	15.36	56.32	65	4
17	Dysoxylum procerrum	Lamboo	68	0.037	4.5	0.166	600	99.4	25.84	125.24	62.62	229.61	125	29
18	Syzygium cumini	Jamun	68	0.037	4.2	0.155	700	108.24	28.14	136.38	68.19	250.03	200	90
19	Terminalia arjuna	Arjun	68	0.037	7	0.258	750	193.28	50.25	243.53	121.77	446.48	1500	670
20	Areca catechu	Areca Palm	68	0.037	3	0.110	880	97.19	25.27	122.46	61.23	224.51	120	27
21	Tecoma stans	Ttikoma	68	0.037	3	0.110	580	64.06	16.66	80.72	40.36	147.98	70	10
22	Swietenia	Mehguni	68	0.037	5	0.184	750	138.06	35.90	173.96	86.98	318.92	1000	319
23	Hibiscus rosa-sinensis	Hibiscus	38	0.011	2.5	0.029	700	20.12	5.23	25.35	12.68	46.48	100	5
24	Hyophorbe lagenicaulis	Bottle palm	68	0.037	6	0.221	900	198.8	51.69	250.49	125.24	459.23	60	28
												TOTAL	16,900	6,287

CARBON SEQUESTRATION BY INSTALLATION OF SOLAR SYSTEM:

M/s BSPL has proposed to install 1500Kwp Solar panels to produce non-conventional green energy for office & auxiliary usage. It will be helpful in carbon sequestration as follows shown in Table 6.

Table-6(a)

The capacity of Solar Panel	1500KWp
Av. Units (KW) power generation per day (considering 85% efficiency)	5100 KW/day
Av. Power Generation KW hour	212.5 KWh
Av. Power Generation MW hour	0.213 MWh
Power generation in 24 hours	5.11 MW
Power generation in a year	1865.88MW

Table-6(b)

CARBON SEQUESTRATION	
Total Power generation per year	1865.88 MW
Av Coal consumption per MW	0.90 T
Total Coal consumption for 1865.88MW	1679.29 T
Total Carbon as FC	1125.13 T
Total CO ₂ e emission Sequestration/Annum	5149.40 T

Table 05 shows that the total CO₂e sequestration potential from greenbelt development (16900 nos. trees) is **6287 tons CO₂ e/Annum**. This number is aimed to be maintained on a yearly basis target by plantations & gap filling to reduce & sequester CO₂ e emissions.

In addition to afforestation, installation of the solar panel shall contribute carbon sequestration up to 5149.40 CO₂e/Annum i.e. around 14.10 Ton/day (Table 6a & 6b).

Thus, through various small-scale & large-scale methodologies, the organization aims to minimize its carbon footprint.

CONCLUSION:

M/s Bravo Sponge Iron Private limited (BSIPL) is committed to reducing the overall Green House Gases and Ambient pollution levels by adopting cleaner technologies and carrying out ecological development activities. The company aims to reduce carbon emissions by introducing different energy-efficient technologies with usages of renewable energy resources,

Further, with the implementation of Carbon capture and storage (CCS) plants in steel industries, steel plants could progress to become near-zero emitters of CO₂. The commercial viability of CCS partly depends on the price of carbon emissions which is set by government policy. Developing new technologies, such as the HIsarna process, that are designed to generate a nitrogen-free and CO₂-rich off gas which will make CO₂ capture & control easier and cheaper.

To conclude, no single option can yield the necessary CO₂ emission reductions but a combination of technologies available can be retrofitted to achieve significant reductions, which is possible after commercial deployment of the same by the Government of India.

ANNEXURE-15

PRIMARY SCHOOL AT VILLAGE KASHBERIA



ANNEXURE-16

DETAILS OF CSR ACTIVITIES

- ❖ Charitable Training Centre of Sewing and Computer Training for Local Women Empowerment and Livelihood in Keshiberia Village:



- ❖ Charitable Dispensaries for Villagers and Provide All Services Including Free Doctors & Medicine in Gobindapur & Keshiberia Village:



- ❖ Distribution of School Book & Writing Note Book, Free Lunch, Fruit to School Student in Keshiberia Sarad Vakti Vadanta School:



- ❖ Setting Up Village-to-Village Pre-Primary Education Centres and Imparting Education Through Local Educated Ladies in Rukni, Gobindapur, Mahuda, Alkusa Village:



- ❖ Cold drinking water is provided for pedestrians at Dabdah:



CSR INITIATIVE

1. CHARITABLE DISPENSARY OPENING IN GURURIA VILLAGE

To ensure access to affordable and quality healthcare in rural areas, Bravo Sponge, under the CSR initiative of Elegant Care Foundation, inaugurated a charitable dispensary in Gururia Village.

- Free or affordable medical consultations and medicines are provided.
- The inauguration was attended by community leaders, local residents, and company representatives.
- Guests were felicitated with shawls and flowers.
- The dispensary will serve as a lifeline for villagers who have limited access to medical facilities.



2. UTILITIES DISTRIBUTION ALONG TO PRIMARY SCHOOL CHILDREN



3. DRINKING WATER SUPPLY

We have taken the responsibility to supply clean drinking water to nearby villages.

- Safe and hygienic water is ensured for daily needs.
- This initiative helps prevent water-borne diseases in the community.
- It supports the overall health and wellbeing of villagers.



ANNEXURE-17

Cancer screening, awareness held in North Garo Hills 48 additional postal ballots of service

HEALTHCARE, MAY 4
 In a March seminar, the general population on the importance of early detection of cancer, the State Cancer Society of Michigan held a one-day seminar for health care professionals, program managers, and policy makers. Dr. Robert A. Compton, Chairman of the Michigan State Board of Cancer, Dr. John A. Mawhinney, state health officer, and Dr. Douglas L. Smith, Michigan's first health care CEO, were the guest speakers. Dr. Smith emphasized the importance of early detection of cancer, and Dr. Mawhinney said that the national goal is to reduce the general population's cancer incidence and mortality rates by 25 percent by the year 2000. Dr. Smith also stressed the importance of early detection of cancer, and Dr. Mawhinney said that the national goal is to reduce the general population's cancer incidence and mortality rates by 25 percent by the year 2000.

[illegible]

Namichi district conducts DLDC meeting at District Ad

[illegible]

For example, David Skilling, along with Dan Marshall of BEAC, Montreal, has begun the work on DC elements of the quarterly of BEAC to monitor the proper administration of system programs like the Fama-Bling and maintenance of C.C.P.N. (and other) in addition, the also included the members to provide programs for the quality of public in the market.

Libertine, A.D.C. Inc. has been the provider of HLCN strategy, he said, and its commitment is focused on compliance with the direction of Congress. Case of such a supportive machine and state the DCT to get its equivalent passed in the Federal House of Representatives.

Franklin D. Bennett, who directed the company in DCT, said he was not involved in the DCT.

corps of the husband, such as the most prevalent type of cancer. The data indicate that the husband was affected and that tobacco has been the prime cause of cancer-related deaths in the state. The American Lung Foundation report also points to the close relationship between cancer and other susceptibility to disease.

voters arrive at Pakyong District

PHOTOGRAPH, MAY 4, 1988—An official postal provision for the general election 2002 was distributed from the Ministry of the Interior, Kyrgyzstan, in Bishkek. The postal ballot was handed over to the voters for their use in the general election 2002.

[illegible][illegible]

Illustrative Centre

For more information, contact the Illustrative Centre, 1000 North 1st Street, Suite 100, Tampa, FL 33602. Tel: 813/224-1111. Fax: 813/224-1112. E-mail: info@illustrativecenter.org. Website: www.illustrativecenter.org.

The Illustrative Centre is a non-profit organization that provides a variety of services to help businesses and organizations improve their communication and marketing efforts. The Illustrative Centre is a non-profit organization that provides a variety of services to help businesses and organizations improve their communication and marketing efforts.

Illustrative Centre

For more information, contact the Illustrative Centre, 1000 North 1st Street, Suite 100, Tampa, FL 33602. Tel: 813/224-1111. Fax: 813/224-1112. E-mail: info@illustrativecenter.org. Website: www.illustrativecenter.org.



OVER 80 CIBC BRANCHES

VEHICLES FOR AUCTION

INDIANIA BRANCH

Location: 1000 N. 10th Avenue, Suite 1000, Chicago, IL 60610

Phone: (773) 344-1100

Website: www.cibc.com

Vehicle Auctions: CIBC Canada Bank, a subsidiary of CIBC Financial Group, is a leading provider of vehicle financing and leasing services. We are now accepting applications for vehicle financing and leasing services. We are now accepting applications for vehicle financing and leasing services.

Vehicle Make/Model	Year/Make/Model	Price/Lease	Location
2000 Ford Taurus	2000 Ford Taurus	\$10,000	Chicago, IL
2000 Ford Taurus	2000 Ford Taurus	\$10,000	Chicago, IL
2000 Ford Taurus	2000 Ford Taurus	\$10,000	Chicago, IL

How to Apply: Please contact CIBC Canada Bank at (773) 344-1100 for more information.

[illegible]

 **पंजाब नैशनल बैंक**  **pnb** **punjab national bank**
(Syst. Of India Undertaking)
INCORPORATED IN INDIA. HEAD OFFICE: 1, BAHADUR SHAHI ZAMINDARA, NEW DELHI - 110002.

[illegible][illegible][illegible][illegible]

ANNEXURE-18

PROJECT DETAILS AS PER CTE/CTO APPLICATION

Name Of Occupier : DEEPAK KUMAR AGARWAL
Industry Id : WB0251697797
Industry Name : BRAVO SPONGE IRON PVT LTD.
Industry Address : VII-Mahuda, PO-Rukhi, PS-Para, Dist-Purulia (WB)-723143

District : Purulia
State : West Bengal
Category : RED
Industry Type : Iron & Steel (involving processing from ore/ integrated steel plants) and/or Sponge iron units
Occupier Email : cndsp0@gmail.com
Occupier Mobile : 9333351111
Application Number : 274440
Application Type : CTE
Application Date : 05-Nov-2020
Approval Date : 10-Nov-2020
Product Name : MS BILLET
Quantity : 22500 Metric Tonnes/Month
Unit :

RESPONSE OF PROJECT PROPONENT

Is EC Obtained ? : Yes
EC Proposal Number : IA/WB/IND/25425/2015
EC Grant Date : 2020-11-05
EC File Number : 3-101/TSE/2005-1441
Authority : MoEFCC
Name of Authorized Person : DEEPAK KUMAR AGARWAL
Designation of Authorized Person : Director


 E- Verification Completed

RESPONSE OF THE PROJECT PROPONENT

Proposal No : IA/WB/IND/25425/2015
Registered Email Id: cndsp0@gmail.com
Status of Implementation of Project or Activity? : Project is operational for partial components/ units envisaged in the EC
Date of CTO : 2021-12-08
Name of Authorized Person : Deepak
Designation of Authorized Person : Director


 E- Verification Completed

ANNEXURE-19



ENVIROCHECK

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



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 03.09.2025
		Date of Received	: 11.09.2025
		Date(s) of Analysis	: 11.09.2025 - 18.09.2025
		Date of Issue	: 19.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/03	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Surface Water
Location	: Rukni Village Pond	Sample Condition	: Sealed
		Sample ID No.	: ENV/22/Sep./W/1
Report No.	: ENV/22/Sep./TR(W)/1/25-26	Testing Location	: Permanent Testing

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	IS 3025 Part 11	-	7.18
2.	Total Suspended Solids	IS 3025 Part 17	mg/l	28.67
3.	Total Dissolved Solids	IS 3025 Part 16	mg/l	316.0
4.	Dissolved Oxygen	IS 3025 Part 38	mg/l	6.4
5.	Chemical Oxygen Demand	IS 3025 Part 58	mg/l	28.8
6.	Biochemical Oxygen Demand [3 Day's at 27°C]	IS 3025 Part 44	mg/l	6.0
7.	Oil & Grease	IS 3025 Part 39	mg/l	<4.0
8.	Residual Chlorine	IS 3025 Part 26	mg/l	<0.04
9.	Chloride	IS 3025 Part 32	mg/l	21.20
10.	Iron	IS 3025 Part 65	mg/l	0.23
11.	Arsenic	IS 3025 Part 65	mg/l	<0.0014
12.	Lead	IS 3025 Part 65	mg/l	<0.001
13.	Mercury	IS 3025 Part 65	mg/l	<0.0012
14.	Copper	IS 3025 Part 65	mg/l	<0.002
15.	Zinc	IS 3025 Part 65	mg/l	0.31
16.	Total Chromium	IS 3025 Part 65	mg/l	<0.00001

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Indrani Bhattacharyya)
(Technical Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 [033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 [033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands



ENVIROCHECK

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



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Client	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 03.09.2025
		Date of Received	: 11.09.2025
		Date(s) of Analysis	: 11.09.2025 - 18.09.2025
		Date of Issue	: 19.09.2025
Sampling Plan & Procedure	: ENV/SOP/01/03	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Surface Water
Location	: Mahuda Village Pond	Sample Condition	: Sealed
		Sample ID No.	: ENV/22/Sep./W/II
Report No.	: ENV/22/Sep./TR(W)/II/25-26	Testing Location	: Permanent Testing

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	IS 3025 Part 11	-	6.93
2.	Total Suspended Solids	IS 3025 Part 17	mg/l	31.8
3.	Total Dissolved Solids	IS 3025 Part 16	mg/l	368.0
4.	Dissolved Oxygen	IS 3025 Part 38	mg/l	6.1
5.	Chemical Oxygen Demand	IS 3025 Part 58	mg/l	19.2
6.	Biochemical Oxygen Demand [3 Day's at 27°C]	IS 3025 Part 44	mg/l	5.0
7.	Oil & Grease	IS 3025 Part 39	mg/l	<4.0
8.	Residual Chlorine	IS 3025 Part 26	mg/l	<0.04
9.	Chloride	IS 3025 Part 32	mg/l	21.23
10.	Iron	IS 3025 Part 65	mg/l	0.21
11.	Arsenic	IS 3025 Part 65	mg/l	<0.0014
12.	Lead	IS 3025 Part 65	mg/l	<0.001
13.	Mercury	IS 3025 Part 65	mg/l	<0.0012
14.	Copper	IS 3025 Part 65	mg/l	<0.002
15.	Zinc	IS 3025 Part 65	mg/l	0.29
16.	Total Chromium	IS 3025 Part 65	mg/l	<0.00001

Remarks : a) Sample collected by Envirocheck and sent to lab for testing in sealed condition.
b) Result relates only to the sample tested.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Indrani Bhattacharyya)
(Technical Manager)

<End of Report>

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 { 033-25792891/25497490, Fax : 033-25299141
Laboratory : 189,190,192,186 & 51 Rastraguru Avenue, Kolkata - 700028 { 033-25792889
Email : info@envirocheck.in/envirocheck50@gmail.com / Website : www.envirocheck.in
Branch Office : • Siliguri • Haldia • Durgapur • Dhanbad • Gangtok • Port Blair • Dehradun • New Delhi
Overseas : • UAE • Qatar • Netherlands

ANNEXURE-20



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB

Accredited by QCI / NABET

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.	Date of sampling	:	03.09.2025
4.	Report No.	:	Env/265/TR(ASH)/M(i)/25-26
5.	Reporting date	:	18.09.2025
6.	Type of sample	:	Bed Ash
7.	Location	:	Near AFBC Boiler

PARAMETERS (mg/lt.)

<u>Zn.</u>	<u>Cu</u>	<u>Ni</u>	<u>Pb</u>	<u>Cd</u>
1.60	2.60	3.80	0.80	0.50

Remarks : Result relates only to the sample tested.

Reviewed By :

(Durbadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 (033-25792891/25497490)
Laboratory : 51, 185, 186, 189, 190 & 192 Rastraguru Avenue, Kolkata - 700028
Email : envirocheck50@gmail.com / info@envirocheck.in Website : www.envirocheck.in



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB

Accredited by QCI / NABET

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.	Date of sampling	:	03.09.2025
4.	Report No.	:	Env/265/TR(ASH)/M(ii)/25-26
5.	Reporting date	:	18.09.2025
6.	Type of sample	:	SMS Slag
7.	Location	:	Near SMS Division

PARAMETERS (mg/Lt.)

<u>Zn.</u>	<u>Cr.</u>	<u>Cu</u>	<u>Ni</u>	<u>Pb</u>	<u>Cd</u>
6.50	0.50	4.20	4.50	1.20	<0.002

Remarks : Result relates only to the sample tested.

Reviewed By :

(Durhadal Chakraborty)
(Dy. Quality Manager)

Authorised Signatory :

(Dr. Ajoy Paul)
(Quality Manager)

<End of Report>