

Ref: -BSIPL/SMC/MoEFCC/OCT-2024 TO MAR-2025

Date: 04.06.2025

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 (Oct-2024 to Mar-2025) Compliance to Environmental Clearance conditions by M/S Bravo Sponge Iron Pvt. Limited, Vill-Mahuda, PO-Rukni, Dist- Purulia (WB)-723145**

**Ref: MoEF&CC EC File No:**

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

Dear Sir/Ma'am,

With reference to the subject, we are submitting herewith the Six Monthly Compliance Report (Period Oct-2024 to Mar-2025) of M/S Bravo Sponge Iron Private Limited, Vill- Mahuda, P.O- Rukini, P.S- Para, Dist- Purulia (WB) 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.

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.

Yours faithfully,

**For 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)



# **BRAVO SPONGE IRON PRIVATE LIMITED**

## **COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE**

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

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

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

## **COMPLIANCE PERIOD:**

**OCTOBER-2024 TO MARCH-2025**

## **PROJECT LOCATION:**

**Village-Mohuda, PO-Rukni, PS-Para, Dist.–Purulia (WB) -723145**



<b>Name of the Project</b>	: <b>BRAVO SPONGE IRON PRIVATE LIMITED</b> Village-Mohuda, PO-Rukni, P.S-Para Dist.-Purulia (WB)-723145
<b>Environmental Clearance Ref No.</b>	: 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 <sup>th</sup> November, 2020 and F. No.: J-11011/758/2009-IA. II(I), Dated: 18 <sup>th</sup> April, 2017
<b>Period of Compliance Report</b>	: October 2024 to March 2025

MoEF&CC, EC F. No J-11011/758/2009-IA-II(IND-I) Date 02/05/2024,		
Sl. No.	CONDITIONS	COMPLIANCE STATUS
<b>A- SPECIFIC CONDITION:</b>		
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 shall be complied with. For existing project, environment protection measures like dust extraction system, bag filters, installation of fixed type 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 being done on regular basis. Risk mitigation measured has been adapted followed under close monitoring of safety department. Necessary PPEs being provided to working personnel.  The recommendations made in the EIA/EMP for environment management, risk mitigation measures related to proposed new project/to be implemented project shall be implemented with implementation of projects.
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.	BSIPL shall ensure to adapt best available technologies available in the market. 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. We shall ensure the 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.
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 shall be complied as per direction with implementation of proposed project. However, 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. 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 <b>Annexure-1</b> .
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 new project.
VII.	The total water requirement of 20,740 m <sup>3</sup> /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.  After obtaining CTE from WBPCB project activities has been initiated. It will be followed as per direction with implementation of new project. Compliance status in this regard, shall be submitted to Regional/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. The construction for the proposed project has not started yet. It shall be implemented as per direction with implementation of new 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.



		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>B- GENERAL CONDITIONS:</b>		
<b>I.</b>	<b>Statutory compliance:</b>	
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
<b>II. Air quality monitoring and preservation</b>		
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 calibrate these systems from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	BSIPL have already installed continuous emission monitoring system in all exiting process stacks and it is connected to the CPCB and SPCB servers. Continuous Ambient Air Quality Station (CAAQMS) shall be installed with the implementation of new project. 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 <b>Annexure -1</b>
ii.	The project proponent shall carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> 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 report attached as <b>Annexure-1</b>
iii.	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under	It is being complied and monitored through NABL accredited laboratory. Monitoring reports of different locations is attached as <b>Annexure-2</b>



	Environment (Protection) Act, 1986 or NABL accredited laboratories.	
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 all 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 with implementation projects.
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 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. 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. Coal fines being used in AFBC boiler whereas iron fines being used in pellet plant.
x.	The project proponent shall provide primary and secondary fume extraction system at all heat treatment furnaces.	It has been implemented in existing project, 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/ Shall 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	It has been adapted for existing plant. As per direction, it will also be followed for coming new project.



	and operated regularly inside the project premises and also in the surrounding villages to arrest suspended dust in the atmosphere.	
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 compiled for existing plant. As per direction, it will also be followed for coming new project.
xvii.	The particulate matter emissions from the process stacks shall be less than 30 mg/Nm <sup>3</sup> 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 shall also be followed for coming new project.
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) 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.	It is being compiled 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 axis Coal, Iron Ore, Fly Ash handling area and all other dust prone areas. Installation of Fog/mist sprinklers has been done in existing & shall also be done 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 <sup>th</sup> 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 <sup>3</sup> 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 It will be followed for as per direction with implementation project. However, monitoring for fugitive emission in existing plant area at different shop floors being periodically on regular basis. Reports attached as <b>Annexure-2</b>
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 shall be followed with upcoming 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 <sub>2</sub> 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 <sub>x</sub> burners as primary measures and SCR /NSCR technologies as secondary measure to control NO <sub>x</sub> emissions.	Noted. It shall be implemented with new project as per requirement.
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 cement plant project has not started yet.
xxxi.	DeSO <sub>x</sub> system shall be provided dry type. NO <sub>x</sub> level shall be maintained below 600 mg/Nm <sup>3</sup> by using best available technology.	Noted, it shall be complied.
xxxii.	Petcoke dosing shall be controlled automatically to control SO <sub>2</sub> 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 per directions.
xxxiv.	Pollution control system in the cement plant shall be provided as per the CREP Guidelines of CPCB.	It shall be followed with installation of cement plant. The construction for the cement plant 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 <sup>3</sup> , 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.	The construction for the proposed DI project has not started yet. As per direction, it will be followed for proposed new project.



	e. PM emissions from BF in Zinc coating area shall be 5 mg/Nm <sup>3</sup> . f. ETP with recycling facility shall be included.	
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. At present no RHF installed
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.
<b>III. Water quality monitoring and preservation</b>		
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 (Protection) Act, 1986 or NABL accredited laboratories.	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.
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 complied/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 compiled 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 compiled 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 compiled 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 compiled 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 being/shall be complied
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 from coke oven shall be discharged. 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 As per direction it is being/shall be complied.
<b>IV. Noise monitoring and prevention</b>		
i.	Noise pollution shall be monitored as per the prescribed Noise Pollution (Regulation and 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.	Noted 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. As per direction, it will be followed for coming new project.
<b>V. Energy Conservation measures</b>		
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.
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 proposed and shall be complied with best possible efforts.
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 project has not started yet. As per direction, it will be followed for coming new project.
ix.	Coke Dry Quenching (CDQ) shall be provided for coke quenching for both recovery and non-recovery type coke ovens.	Noted The construction for the proposed coke oven project has not started yet. As per direction, it will be followed for coming new project.
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 followed for coming new project.
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 project.
xii.	Tar shall be recovered from producer gas and shall be sold to registered processors and phenolic water shall be incinerated in After Burn Chamber (ABC) of DRI kilns.	It is being/shall be compiled
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 new project.
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.
<b>VI. Waste management</b>		
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 compiled for existing plant. As per direction, it will be followed for coming new project.
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 <a href="https://cpcb.nic.in/technical-guidelines-3/">https://cpcb.nic.in/technical-guidelines-3/</a> . All the project proponents are hereby requested to sensitize and create awareness among people working within	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



	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.	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 compiled for existing plant. As per direction, it will be followed for coming new project.
vi.	Solid waste utilization-  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.	Noted It is being complied/shall be implement for proposed expansion and 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 coming new project. Slag from SMS being used for road making, and filling for its suitable utilization.
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 GCP project has not started yet. As per direction, it will be implemented after installation of blast furnace 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 for coming new 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 with proper insulation to conserve the heat for maximum recovery.
xi.	Tar Sludge and waste oil shall be blended with coal charged in coke ovens (applicable only to recovery type coke ovens).	It not applicable for BSIPL because of BSIPL has proposed non-recovery type coke oven.
<b>VII. Green Belt</b>		
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 for coming new project.
ii.	Project proponent shall submit a study report on Decarbonisation program, which would essentially consist of company's carbon emissions, carbon	Noted. It shall be complied.



	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.	
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 for coming new project massive plantation program has been started in new project area.
<b>VIII. Public hearing and Human health issues</b>		
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 followed for coming new 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 be followed for coming new project. Necessary PPEs being provided to the people working in hot zone area including short time working and rest.
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 is being/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 complied. Occupational health surveillance of the workers being done and records are maintained, report attached as <b>Annexure-3</b>
<b>IX. Environment Management</b>		
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 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. It will be followed as per direction with implementation of new project.
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	BIPL 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



	<p>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&amp;CC as a part of six-monthly report.</p>	<p>reporting system in place to deal with any non-compliance/violation of environmental norms.</p>
<p>iii.</p>	<p>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.</p>	<p>An environmental cell has been set up under the supervision of senior executive to look after the day to day activities pertaining to environment &amp; pollution control issues of the company. Hierarchical system/ Administrative order of the environmental cell is follows:</p> <p style="text-align: center;">Board of Directors</p> <pre> graph TD     CMD[CMD] --&gt; JTM[JT. MD]     JTM --&gt; HES[Head - Environment Health &amp; Safety]     JTM --&gt; UH[Unit Head]     HES --&gt; Env[Environment]     HES --&gt; Health[Health]     HES --&gt; Safety[Safety]     UH --&gt; OH[Operation Head]     Env --&gt; EO[Env. Officer/Engg.]     Health --&gt; MO[Medical Officer]     Safety --&gt; SO[Safety Officer]     </pre>
<p>iv.</p>	<p>Performance test shall be conducted on all pollution control systems every year and report shall be submitted to Integrated Regional Office of the MoEF&amp;CC.</p>	<p>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. Monitoring reports being submitted to Integrated Regional/Sub Office of the MoEF&amp;CC. 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.</p>
<p><b>X. Miscellaneous</b></p>		
<p>i.</p>	<p>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.</p>	<p>Complied. Newspaper advertisement has been done in Arthik lipi Kolkata business Page No-7 Date 7<sup>th</sup> May 2024 and the Echo India Kolkata 7<sup>th</sup> May-24 at page No 5.</p>



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 monitored data on their website and update the same on half-yearly basis.	Noted. It is being compiled for existing plant. As per direction, it will be followed for coming new project.
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 project. Monitoring reports being submitted with six-monthly compliance report on regular basis. It is being displayed at main gate of the factory and also put on the website of the company.
v.	Action plan for developing connecting and internal road in terms of MSA as per IRC guidelines shall be implemented	Noted & agreed
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 It shall be complied as per directions. Six-monthly compliance report being sent to regional/sub office of the ministry on regular basis.
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.	Being complied. The environment statement (Form-V) for Financial Year 2023-24 has already been submitted and financial year 2024-25 will be submitted to WBPCB with copy to Sub Office of the MOEF&CC, Kolkata. The report is uploaded on the company's website as per direction.
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 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. It is being/shall be complied with.
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	Noted. The details for existing project has already submitted and directions shall be complied for upcoming implementation project.



	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 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



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<b>A. Specific conditions</b>		
i.	The 95 TPD DRI Unit shall be upgraded to 100 TPD with installation of 2MW 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 <sub>2</sub> and NO <sub>x</sub> 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 <b>Annexure -4</b>
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. 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.



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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 <b>Annexure-5</b>
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. 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 <b>Annexure-6</b>
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 <sup>3</sup> .	Project installed under approval of current EC complies the emission level of less than 30mg/Nm <sup>3</sup> . 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. Latest stack monitoring reports of existing running project are attached as <b>Annexure-7</b>
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 upcoming implementation projects.
<b>B. General conditions</b>		
<b>I.</b>	<b>Statutory compliance:</b>	
i.	The Environment Clearance (EC) granted to the project/activity is strictly under the provisions of the EIA Notification, 2006 and its amendments	Noted. It is being/shall be adhered. After getting EC vide F. No.: J-11011/758/2009-IA-II(I) dated 05 <sup>th</sup> November, 2020, CTE for the project was obtained



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	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.	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).
<b>II. Air quality monitoring and preservation</b>		
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.  Ambient Air Quality Monitoring (AAQM) being done periodically through NABL accredited agency.  Latest Ambient Air Quality Monitoring reports are attached as <b>Annexure-1</b>
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 <b>Annexure-2</b>
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.  BSIPL 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	It is being complied. Iron ore fines collected from pollution control devices and ground level working platform being collected and used in



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	vacuum cleaning devices in the process after briquetting/agglomeration.	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 <b>Annexure-7 &amp; 2</b>
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.
<b>III. Water quality monitoring and preservation</b>		
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 <sup>th</sup> May 2008; G.S.R 277 (E) dated 31 <sup>st</sup> March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7 <sup>th</sup> 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 <b>Annexure-8</b> .
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 <b>Annexure-9</b>
iii.	Adhere to 'Zero Liquid Discharge'.	It is being complied.



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		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. BSIPL 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.
<b>IV.</b>	<b>Noise monitoring and prevention</b>	
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 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 complied. Latest Ambient & Work Zone Noise monitoring reports are enclosed as <b>Annexure- 10 &amp; 11.</b>
<b>V.</b>	<b>Energy Conservation measures</b>	
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. BSIPL 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.
<b>VI.</b>	<b>Waste management</b>	
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 <b>Annexure-12</b>
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.
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.



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<b>VII. Green Belt</b>		
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 <b>Annexure-6</b>
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 <b>Annexure-13</b>
<b>VIII. Public hearing and Human health issues</b>		
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 <b>Annexure-3</b>
<b>IX. Corporate Environment Responsibility</b>		
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1 <sup>st</sup> May 2018, as applicable, regarding Corporate Environment Responsibility.	Environmental protection measures have been implemented for effective compliance recommended in EIA/EMP reports. BSIPL 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. <b>Annexure-14.</b>  Drinking water supply in nearby Mahuda village is maintained on regular basis. Under enterprise social



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S No	Conditions	Compliance Status
		<p>commitment providing jobs to the local people and contribution towards social causes and renovation of village ponds etc.</p> <p>A swing training center for woman empowerment has been started and the women from nearby villages are getting benefitted <b>Annexure-15</b></p> <p>Running charitable Dispensaries for local villagers and medical service including free doctor &amp; medicines I Gobindapur &amp; Keshiberia village. Distribution of school books &amp; writing note books, lunch box, fruit etc. edible to school students in Kashi beria Sarad Vakti Vadanta School.</p> <p>Mobile water tankers are deployed on the roads for dust suppression. Water sprinkling being done on nearby village roads also.</p>
ii.	<p>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&amp;CC as a part of six-monthly report.</p>	<p>It is compiled and already submitted. BSIPL have implemented standard operating procedure to look into any infringement/ deviation/violation of environmental/ forest/wildlife norms/ conditions.</p> <p>BSIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions.</p> <p>BSIPL have in placed reporting system for non-compliance/violation of environmental norms.</p> <div data-bbox="861 1355 1372 1769" data-label="Diagram"> <pre> graph TD     Board[Board of Directors] --&gt; CMD[CMD]     CMD --&gt; JTMD[JT. MD]     JTMD --&gt; EHSHS[Head - Environment Health &amp; Safety]     JTMD --&gt; UnitHead[Unit Head]     EHSHS --&gt; Environment[Environment]     EHSHS --&gt; Health[Health]     EHSHS --&gt; Safety[Safety]     Environment --&gt; EnvOff[Env. Officer/Engg.]     Health --&gt; MedOff[Medical Officer]     Safety --&gt; SafOff[Safety Officer]     UnitHead --&gt; OpHead[Operation Head]     </pre> </div>
iii.	<p>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.</p>	<p>An environmental cell has been set up under the supervision of Senior Executive to look after the day to day activities pertaining to environment &amp; pollution control issues of the company.</p>



Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05 <sup>th</sup> November, 2020		
S No	Conditions	Compliance Status
<b>X.</b>	<b>Miscellaneous</b>	
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 <b>Annexure-16</b>  Granted EC copy has been available as 'Environmental Orders' on the company website permanently  <a href="http://shakambhariispat.com/environmental-orders">http://shakambhariispat.com/environmental-orders</a>
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  <a href="http://shakambhariispat.com/environmental-compliance">http://shakambhariispat.com/environmental-compliance</a>
iv.	The project proponent shall monitor the criteria pollutants level namely; PM <sub>10</sub> , SO <sub>2</sub> , NO <sub>x</sub> (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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> and stack monitoring for PM, SO <sub>2</sub> , and NO <sub>x</sub> . 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 <b>Annexure-1 &amp; 7</b>
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 environment statement for FY 2023-24 has been submitted and FY 2024-2025 will be Submitted to WBPCB with copy to MoEF&CC Sub office Kolkata. Report being uploaded on the company website as per direction.  <a href="http://shakambhariispat.com/environmental-compliance">http://shakambhariispat.com/environmental-compliance</a>



Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05 <sup>th</sup> November, 2020		
S No	Conditions	Compliance Status
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, BSIPL 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 <b>Annexure-17</b> .
viii.	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. The commitments made during public hearing, recommendations made in the EIA/EMP report and also 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 MoEFCC.



Environmental Clearance F. No.: J-11011/758/2009-IA-II(I) dated 05 <sup>th</sup> November, 2020		
S No	Conditions	Compliance Status
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.



Environmental Clearance F. No.: J-11011/758/2009-IA. II (I), Dated: 18 <sup>th</sup> April, 2017		
SL	CONDITIONS	COMPLIANCE STATUS
<b>A. SPECIFIC CONDITIONS:</b>		
1.	The project proponent shall install 24x7 air monitoring devices to monitor air emissions, as provided by the CPCB and submit report to Ministry and its Regional Office.	We have installed 24x7 OCEMS connected to CPCB portal to monitor the air emissions. Latest stack monitoring reports are attached as <b>Annexure 7</b> .
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.  BSIPL 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 <b>Annexure-2</b>
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 <b>Annexure-8</b>
4.	No effluent shall be discharged outside the plant premises and 'zero' discharge shall be adopted.	Recycle and reuse practice has been adapted and no industrial 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 <sup>3</sup> 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 system have been installed and efficiently operated to control emission level well within the norms. Water sprinkling being done for fugitive dust suppression.  Third party monitoring by NABL accredited laboratory being conducted periodically to evaluate the emission levels.  Latest stack monitoring report in enclosed as <b>Annexure-7</b>



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 <b>Annexure-5</b>  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 of this EC. Plantation has been done using indigenous species i. e. Mehagani, Segun, Pakur, Radhachura, Neem, Bakul, Shishu, Jarul, Arjuna, Sonajuri, Kadam, Pepal etc. along the plant periphery as well as inside the plant and we have achieved the desired target of plantation. Regular maintenance being done for sustainability of the plants. Some pictures are attached as <b>Annexure-6</b>
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 <b>Annexure-1</b>
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 <b>Annexure-2</b>
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 <b>Annexure-8, Annexure-9 &amp; Annexure-18</b>



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 <b>Annexure-19</b>
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 <b>Annexure-12</b>
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 <b>Annexure-6</b> Post plantation work for nourishment of the plants being done on regular basis.
16.	All the commitments made to the public during Public Hearing/public consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	It is/being complied and we are in the process of regular compliance of commitments made during public hearing i.e. up gradation of educational facilities, organizing health checkup camps for nearby villagers, abatement of pollution, providing necessary PPEs to the workers for safety etc. BSIPL have dedicated HR department to take care of CSR activities.



17.	An amount equal to Rs. 400.87 Lakhs, shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues, locals need and item-wise details along with time bound action plan as indicated by the project proponent shall be implemented. Action taken report in this regard shall be submitted to the Ministry's Regional Office.	The amount earmarked is exclusively used for implementation of Enterprise Social Commitment. Our expenditures incurred towards facilitating study materials to the nearby school students, infrastructure development in the schools, plants distribution for encouragement of social forestry, drinking water supply and social causes etc.
18.	The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/procedure to being into focus any 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. BSIPL has implemented standard operating procedure to look into any infringement / deviation/violation of environmental or forest norms/ conditions.  BSIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions.  BSIPL 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.  BSIPL 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>B-GENERAL CONDITIONS:</b>		
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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> 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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> , NO <sub>2</sub> and stack monitoring report is enclosed in <b>Annexure-1 &amp; Annexure-7</b>
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 <b>Annexure-8</b>
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 <b>Annexure-11 &amp; Annexure-10</b>
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 <b>Annexure-3</b>
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. <b>Annexure-14.</b>
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.  <a href="http://shakambhariispat.com/environmental-compliance">http://shakambhariispat.com/environmental-compliance</a>
12.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF& CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	Six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data being submitted to MoEF& CC and Pollution Control Board.  It is submitted in soft copy only as per direction of Hon'ble MoEFCC F. NO. 106-12/EPE dtd. 11.05.2020



13.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&CC at Bhubaneshwar by e-mail.	It is being complied.  The environment statement for FY 2023-24 has been submitted & FY 2024-2025 will be submitted to WBPCB with copy to sub office Kolkata of the MoEF& CC. Report being/shall be 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 <a href="http://envfor.nic.in">http://envfor.nic.in</a> . 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



## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025 - 08.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/VIII	Report No.	: ENV/27/Feb./TR(A)/VIII/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Mahuda Village (0.5 km. from Plant) (Southern Side)
2. Duration of Sampling : 24 hrs. (10:10 a.m. - 10:10 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 (Part 24) : 2019	45.43
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2019	72.48
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	14.22
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.50
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10) : 2019	0.46
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9) : 2019	16.50
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999& APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL

Quality Manager



# 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/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025 - 08.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/IX	Report No.	: ENV/27/Feb./TR(A)/IX/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Near Railway Siding Area (Northern Side)
2. Duration of Sampling : 24 hrs. (09:50 a.m. - 09:50 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 (Part 24) : 2019	46.27
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2019	78.51
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	11.82
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10): 2019	0.26
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9) : 2019	15.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999& APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA

Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL

Quality Manager

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# ENVIROCHECK

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



## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025 - 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/X	Report No.	: ENV/27/Feb./TR(A)/X/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Near Administrative Buildings
2. Duration of Sampling : 24 hrs. (09:20 a.m. - 09:20 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 21.0
2. Average Relative Humidity (%) : 53.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 (Part 24) : 2019	42.57
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2019	71.47
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	7.20
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.05
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10) : 2019	0.18
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9) : 2019	14.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999& APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

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



## TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025 - 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XI	Report No.	: ENV/27/Feb./TR(A)/XI/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate (Western Side)
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 23.0
2. Average Relative Humidity (%) : 58.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM <sub>2.5</sub>	µg/m <sup>3</sup>	IS 5182 (Part 24) : 2019	38.36
2.	Concentration of PM <sub>10</sub>	µg/m <sup>3</sup>	IS 5182 (PART 23) : 2019	74.20
3.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	6.27
4.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0
5.	Concentration of CO	mg/m <sup>3</sup>	IS 5182 (Part 10) : 2019	0.16
6.	Concentration of Pb	µg/m <sup>3</sup>	IS 5182 (Part 22) : 2019	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m <sup>3</sup>	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36
8.	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 11) 2017& ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74
9.	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part-9) : 2019	<10.0
10.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	IS 5182 (Part 25) : 2018	<4.18
11.	Nickel (Ni)	ng/m <sup>3</sup>	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m <sup>3</sup>	EPA IO 3.2, 1999& APHA 23 <sup>rd</sup> Ed 3114C : 2017	<0.01

Remarks : Result relates only to the sample tested.

Reviewed By :

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ANNEXURE- 2



# ENVIROCHECK

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XII	Report No.	: ENV/27/Feb./TR(A)/XII/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : DRI - 350 TPD Area
2. Duration of Sampling : 08 hrs. (09:00 a.m. - 05:00 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	460.53

Remarks : Result relates only to the sample tested.

Reviewed By :

*Indrani Bhattacharya*

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XII	Report No.	: ENV/27/Feb./TR(A)/XII/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : DRI - 350 TPD Area
2. Duration of Sampling : 08 hrs. (09:00 a.m. - 05:00 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	21.60
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	34.37

Remarks : Result relates only to the sample tested.

Reviewed By :

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XIII	Report No.	: ENV/27/Feb./TR(A)/XIII/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area
2. Duration of Sampling : 08 hrs. (09:30 a.m. - 05:30 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	483.25

Remarks : Result relates only to the sample tested.

#### Reviewed By :

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#### Authorised Signatory :

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## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XIII	Report No.	: ENV/27/Feb./TR(A)/XIII/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area
2. Duration of Sampling : 08 hrs. (09:30 a.m. - 05:30 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	8.31
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	20.0

Remarks : Result relates only to the sample tested.

Reviewed By :

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XIV	Report No.	: ENV/27/Feb./TR(A)/XIV/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : DRI - 100 TPA Area
2. Duration of Sampling : 08 hrs. (09:50 a.m. - 05:50 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	860.61

Remarks : Result relates only to the sample tested.

#### Reviewed By :

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XIV	Report No.	: ENV/27/Feb./TR(A)/XIV/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : DRI - 100 TPA Area
2. Duration of Sampling : 08 hrs. (09:50 a.m. - 05:50 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.0
2. Average Relative Humidity (%) : 60.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	16.62
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	21.54

Remarks : Result relates only to the sample tested.

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XV	Report No.	: ENV/27/Feb./TR(A)/XV/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : SMS Area
2. Duration of Sampling : 08 hrs. (09:20 a.m. - 05:20 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	380.52

Remarks : Result relates only to the sample tested.

#### Reviewed By :

  
INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

#### Authorised Signatory :

  
Dr. AJOY PAUL  
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 Ph. 25497490  
Laboratory : 189, 190, 192, & 51, Rastraguru Avenue, Kolkata -700028  
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in  
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Port Blair ■ Noida



# ENVIROCHECK

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XV	Report No.	: ENV/27/Feb./TR(A)/XV/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : SMS Area
2. Duration of Sampling : 08 hrs. (09:20 a.m. - 05:20 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	13.85
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.41

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJOY PAUL  
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 Phone [ 033-25792891/25497490  
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# ENVIROCHECK

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XVI	Report No.	: ENV/27/Feb./TR(A)/XVI/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Cooler Discharge - DRI - 100 TPD Area
2. Duration of Sampling : 08 hrs. (09:45 a.m. - 05:45 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	980.42

Remarks : Result relates only to the sample tested.

#### Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

#### Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJOY PAUL  
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 Ph. 25497490  
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Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Port Blair ■ Noida



# ENVIROCHECK

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



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XVI	Report No.	: ENV/27/Feb./TR(A)/XVI/24-25

### A] GENERAL INFORMATION

1. Location of Sampling : Cooler Discharge - DRI - 100 TPD Area
2. Duration of Sampling : 08 hrs. (09:45 a.m. - 05:45 p.m.)

### B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	12.18
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	26.16

Remarks : Result relates only to the sample tested.

Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJOY PAUL  
Quality Manager

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  
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# ENVIROCHECK

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XVII	Report No.	: ENV/27/Feb./TR(A)/XVII/24-25

### 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

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m <sup>3</sup>	IS 5182 (Part 4) : 2019	542.53

Remarks : Result relates only to the sample tested.

#### Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

#### Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJOY PAUL  
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 Ph. 25497490  
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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



## TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 07.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/XVII	Report No.	: ENV/27/Feb./TR(A)/XVII/24-25

### 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

1. Average Temperature (°C) : 25.5
2. Average Relative Humidity (%) : 63.0
3. Barometric Pressure (mm of Hg) : 759.0
4. Smell or Odour : No Remarkable Smell

### C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 2) 2017& ASTM D 2914-01,Sec. 11 (Vol. 11.07) : 2017	12.74
2.	Concentration of NO <sub>2</sub>	µg/m <sup>3</sup>	IS 5182 (Part 6) 2017& ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	24.88

Remarks : Result relates only to the sample tested.

Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJOY PAUL  
Quality Manager

<End of Report>

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



ANNEXURE- 3



# techlab

A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

## NABL Accredited Laboratory

ID NO. : BSI-50/012025/00001  
 NAME : **Mr. Sunil Kr Saw**  
 AGE / SEX : 52 Years / Male  
 REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
 REPORTED ON: 08.01.2025  
 ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b>CBC (Complete Blood Count)</b>			
Haemoglobin (Hb%)	13.4	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b>TOTAL COUNT</b>			
Erythrocyte Count	4.33	million/cu.mm	4.5 - 6.5
Platelet Count	2,45,000	Per c.mm	150000 - 450000
<b>TOTAL COUNT</b>			
Leucocyte Count	7,600	/cu.mm	4000 - 10000
<b>DIFFERENTIAL COUNT</b>			
Neutrophil	61	%	51 - 75
Lymphocyte	34	%	21 - 35
Eosinophil	04	%	0 - 6
Monocyte	01	%	1 - 10
Basophil	00	%	0 - 1
PCV	38.9	%	35 - 45
MCV	89.8	fl	80 - 96
MCH	31.0	pg	27 - 30
MCHC	34.5	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	06	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35
<small>Method : Westergren Method</small>			

-----End of Report-----

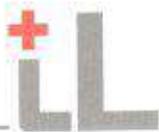
# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya**, MD (Path)  
 Asst. Professor (WBMES)  
 Consultant Pathologist  
 Consultant Pathologist  
 Reg. No. - 40207

**Dr. Jaya Das**, MD  
 Consultant Microbiologist

**Dr. Gautam Gupta**, MD  
 Consultant Biochemist

**Dr. Sadhana Ganguli**, MBBS, Ph. D  
 Ex. Prof. Pathology (Haematology)  
 IPGME & R and SSKM Hospital  
 Consultant Pathologist



# techlab

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
 Email : tlab\_2006@hotmail.com

NABL Accredited Laboratory

**Bravo Sponge Iron Pvt. Ltd.**  
 Purulia - 723145

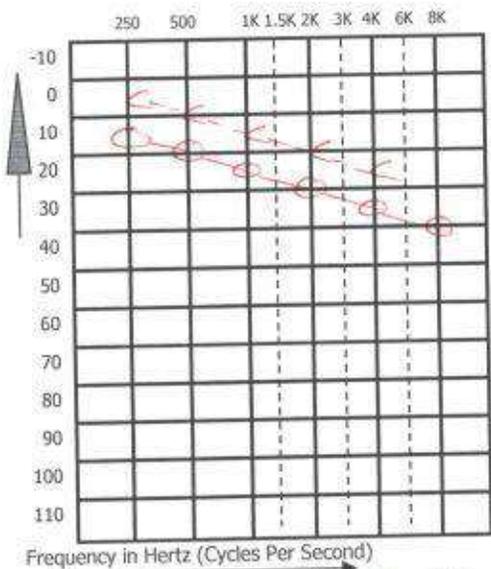
NO	NAME	AGE	ID
1	SUNIL KUMAR SAW	52	3844

### AUDIOGRAM

### CASE HISTORY

#### RIGHT EAR

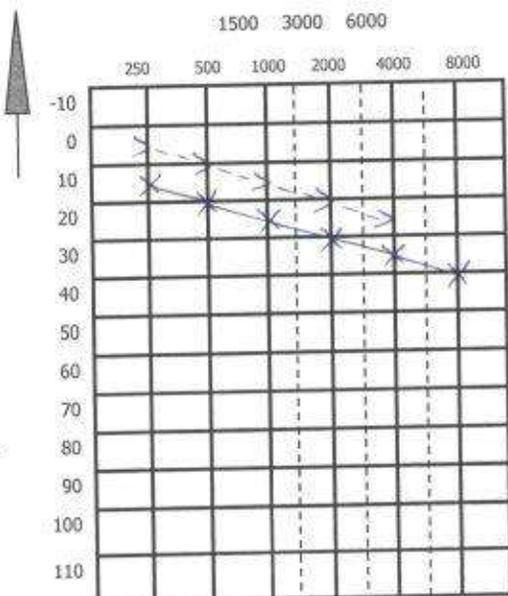
Hearing Loss in decibels (dBHL)



PTAv = 25 dBHL

#### LEFT EAR

Hearing Loss in decibels (dBHL)



PTAv = 20 dBHL

	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

### RINNE TEST

R +ve                      L +ve  
**AUDIOMETRIC WEBER TEST**  
 R    250 Hz                      L  
       500 Hz  
       1000 Hz  
       2000 Hz  
       4000 Hz

SPEECH AUDIOMETRY RL		
	R	L
SRT		
SDS		
Roll Over		

SPECIAL TEST	
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

R.V

Patient: SUNIL KUMAR SAW

Age : 52 Yrs

Gender : Male

Refd. By:

Height : 177 Cms

Smoker : No

Pred. Eqns: RECORDERS

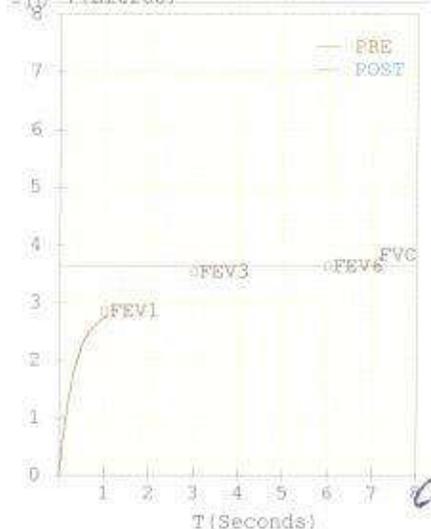
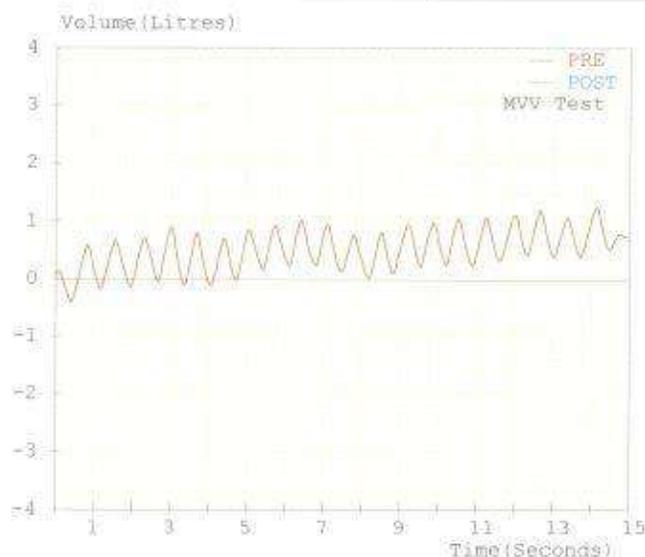
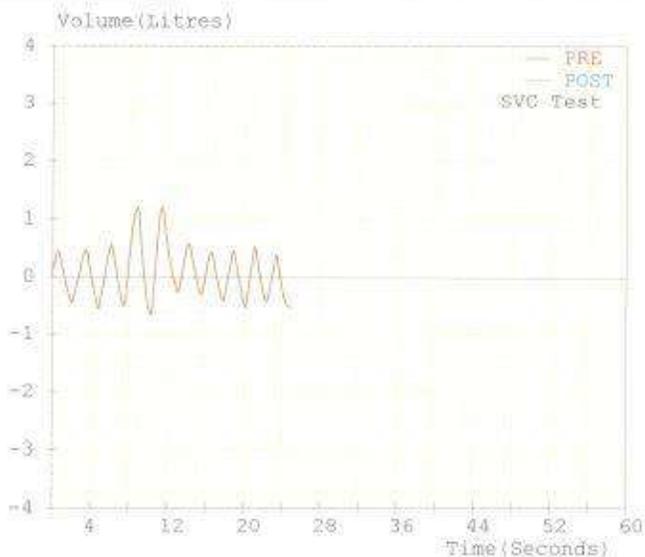
Weight : 89 Kgs

Eth. Corr: 100

Date : 07-Jan-2025 10:58 AM

ID : BS 1

Temp :



Spirometry Results						
Parameter		Pred	M.Pre	%Pred	M.Post	%Pred
FVC	(L)	03.63	02.76	076	----	----
FEV1	(L)	02.86	02.74	096	----	----
FEV1/FVC	(%)	78.79	99.28	126	----	----
FEF25-75	(L/s)	03.93	04.19	119	----	----
PEFR	(L/s)	08.93	07.81	087	----	----
FIVC	(L)	----	01.77	----	----	----
FEV.5	(L)	----	02.24	----	----	----
FEV3	(L)	03.52	02.76	078	----	----
PIFR	(L/s)	----	03.93	----	----	----
FEF75-85	(L/s)	----	01.92	----	----	----
FEF.2-1.2	(L/s)	06.43	06.27	096	----	----
FEF 25%	(L/s)	07.88	06.53	083	----	----
FEF 50%	(L/s)	05.44	04.42	081	----	----
FEF 75%	(L/s)	02.33	02.57	110	----	----
FEV.5/FVC	(%)	----	81.16	----	----	----
FEV3/FVC	(%)	96.97	100.00	103	----	----
PET	(Sec)	----	01.07	----	----	----
ExptTime	(Sec)	----	00.04	----	----	----
Lung Age	(Yrs)	052	054	104	----	----
FEV6	(L)	03.63	----	----	----	----
PIF 25%	(L/s)	----	01.99	----	----	----
PIF 50%	(L/s)	----	00.71	----	----	----
PIF 75%	(L/s)	----	03.33	----	----	----
SVC	(L)	----	01.85	----	----	----
ERV	(L)	01.29	00.13	010	----	----
IRV	(L)	----	00.65	----	----	----
VE	(L/min)	----	23.78	----	----	----
Rf	(l/min)	----	22.22	----	----	----
Ti	(sec)	----	01.40	----	----	----
Te	(sec)	----	01.30	----	----	----
VT	(L)	----	01.07	----	----	----
VT/Ti		----	00.76	----	----	----
Ti/Ttot		----	00.52	----	----	----
IC	(L)	----	01.72	----	----	----
MVV	(L/min)	132	067	051	----	----
MRV	(l/min)	----	88.15	----	----	----
MVT	(L)	----	00.76	----	----	----

Pre Medication Report Indicates Mild Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <80

*Dr. Arjun Basu*  
 MD  
 Consultant Cardiologist  
 Reg. No. 4033



NABL Accredited Laboratory

**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145

(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
1	SUNIL KUMAR SAW	52	3844

### EYE EXAMINATION

Vision Right Eye : 6/6

WITH EXISTING GLASS

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

  
Eye Consultant

Dr. Pranab Kumar Bose  
DMS (Cat), BSc (Hons) DMS (Cat)  
Optometrist, Eye & Vision Care  
Reg. No. - 9436

ID: 76072

Sunil Kumar Saw

Male

52 Years

cm

mmHg

kg

Diagnosis Information:  
Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

HR	:	80	bpm
P	:	109	ms
PR	:	144	ms
QRS	:	84	ms
QT/QTc	:	336/389	ms
P/QRS/T	:	47/38/-5	°
RV5/SV1	:	1.375/0.648	mV

Report Confirmed by:

Resting ECG is WNL

Dr. Arjun Datta  
Consultant Cardiologist  
Reg. No. 40386



# techlab

NABL Accredited Laboratory

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00001  
NAME : Mr. Sunil Kr Saw  
AGE / SEX : 52 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



### CHEST - PA ERECT VIEW

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg.No.WB MC 53151

8cm

8cm





# techlab

**NABL Accredited Laboratory**

*A Computerised Path Lab*

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

ID NO. : BSI-50/012025/00010  
NAME : **Mr. Fahu Ram Hansda**  
AGE / SEX : 34 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



BSI50/012025/00010

## REPORT OF HAEMATOLOGICAL PROFILE

<u>TEST NAME</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>REFERENCE RANGE</u>
<b><u>CBC (Complete Blood Count)</u></b>			
Haemoglobin (Hb%)	14.3	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b><u>TOTAL COUNT</u></b>			
Erythrocyte Count	5.45	million/cu.mm	4.5 - 6.5
Platelet Count	2,30,000	Per c.mm	150000 - 450000
<b><u>TOTAL COUNT</u></b>			
Leucocyte Count	5,700	/cu.mm	4000 - 10000
<b><u>DIFFERENTIAL COUNT</u></b>			
Neutrophil	62	%	51 - 75
Lymphocyte	35	%	21 - 35
Eosinophil	02	%	0 - 6
Monocyte	01	%	1 - 10
Basophil	00	%	0 - 1
PCV	41.8	%	35 - 45
MCV	76.8	fl	80 - 96
MCH	26.1	pg	27 - 30
MCHC	34.1	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	04	mm/hour	Male <70years : upto 14 Male >70years : upto 30 Female <70years : upto 20 Female >70years : upto 35

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMS) (Path)  
Consultant Pathologist

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist



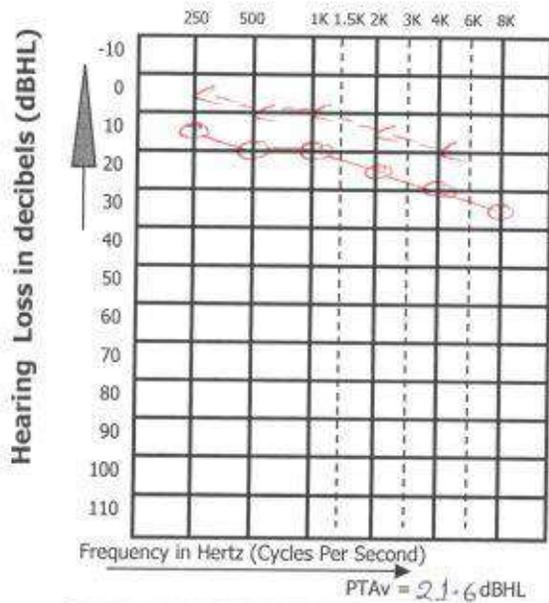
**Bravo Sponge Iron Pvt. Ltd.**

Purulia - 723145

NO	NAME	AGE	ID
10	FAGURAM HANSDA	34	3479

**AUDIOGRAM**

**RIGHT EAR**



**CASE HISTORY**

	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE(Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

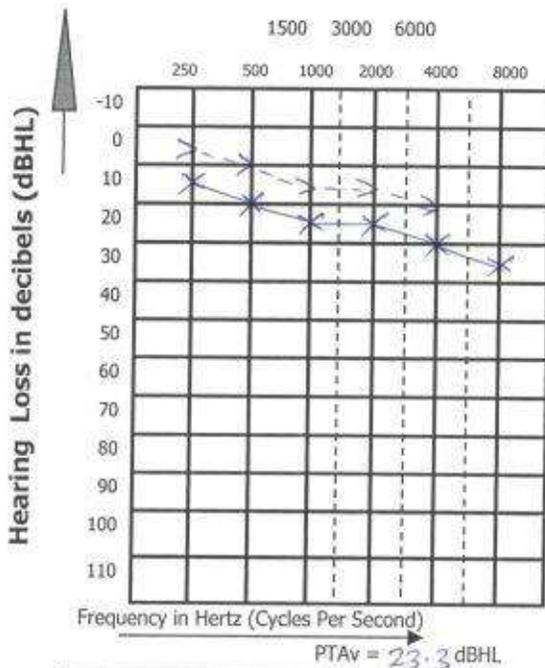
**RINNE TEST**

R+ve L+ve

**AUDIOMETRIC WEBER TEST**

R 250 Hz L  
500 Hz  
1000 Hz  
2000 Hz  
4000 Hz

**LEFT EAR**



**SPEECH AUDIOMETRY RL**

	R	L
SRT		
SDS		
Roll Over		

**SPECIAL TEST**

R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K

13/1C, Balaram Ghosh Street, Kolkata - 700004

Patient: FAGU RAM HANSDA

Refd. By:

Pred. Eqns: RECORDERS

Date : 07-Jan-2025 11:33 AM

Age : 34 Yrs

Height : 167 Cms

Weight : 74 Kgs

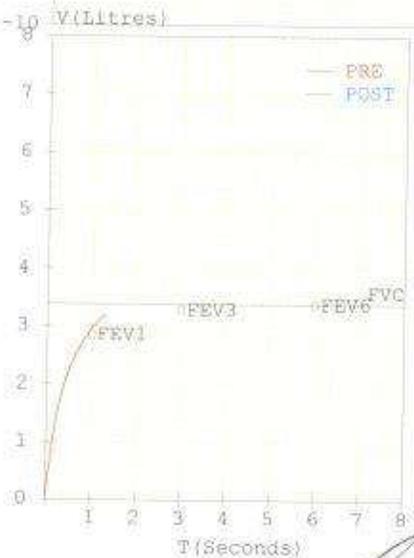
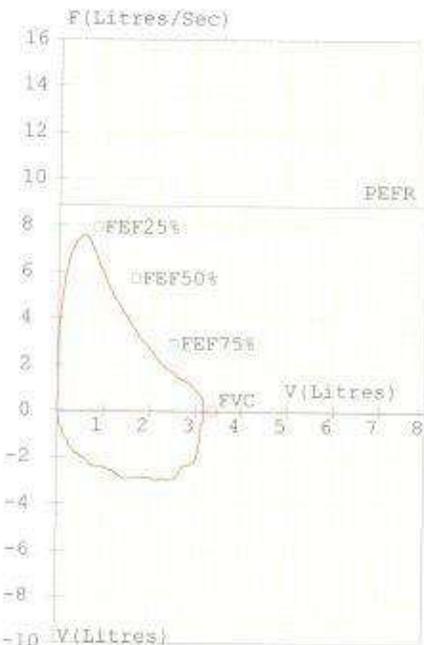
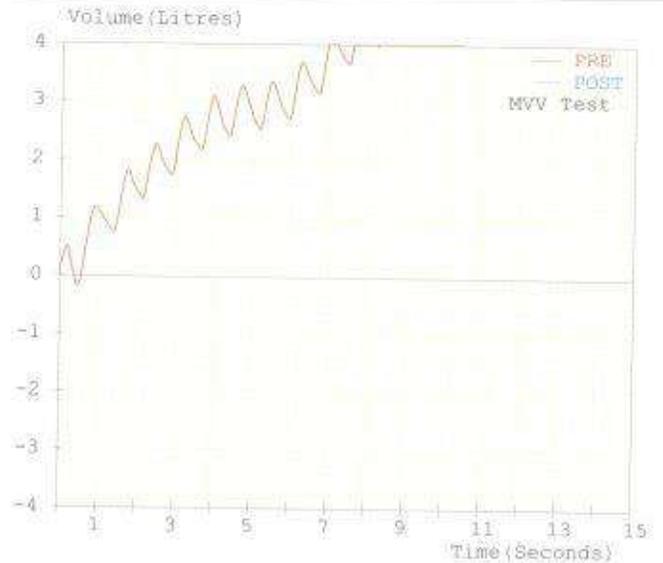
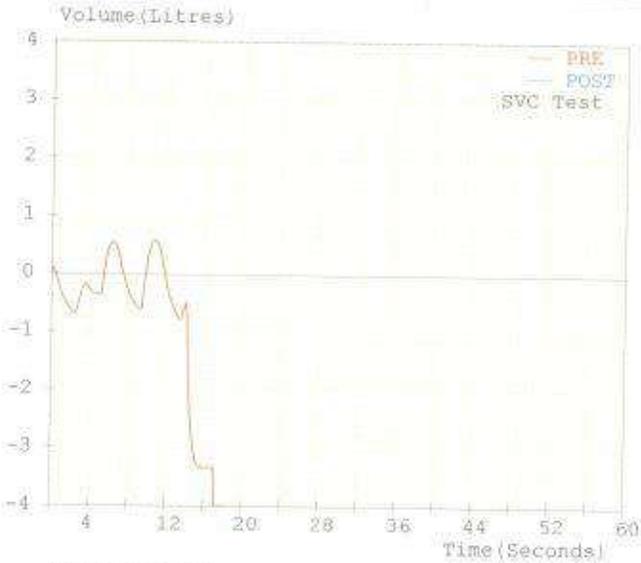
ID : BS 10

Gender : Male

Smoker : Yes

Eth. Corr: 100

Temp :



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.38	03.18	094	---	---	---
FEV1 (L)	02.84	02.96	104	---	---	---
FEV1/FVC (%)	84.02	93.08	111	---	---	---
PEF25-75 (L/s)	04.15	03.34	080	---	---	---
PEFR (L/s)	08.85	07.49	085	---	---	---
FIVC (L)	---	03.15	---	---	---	---
FEV.5 (L)	---	02.24	---	---	---	---
FEV3 (L)	03.28	03.18	097	---	---	---
P1FR (L/s)	---	02.97	---	---	---	---
PEF75-85 (L/s)	---	01.51	---	---	---	---
FEF.2-1.2 (L/s)	07.14	06.42	090	---	---	---
FEF 25% (L/s)	07.90	06.78	086	---	---	---
FEF 50% (L/s)	05.72	03.70	065	---	---	---
FEF 75% (L/s)	02.92	01.77	061	---	---	---
FEV.5/FVC (%)	---	70.44	---	---	---	---
FEV3/FVC (%)	97.04	100.00	103	---	---	---
FET (Sec)	---	01.31	---	---	---	---
ExptTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	034	033	097	---	---	---
FEV6 (L)	03.38	---	---	---	---	---
FIF 25% (L/s)	---	02.96	---	---	---	---
FIF 50% (L/s)	---	02.86	---	---	---	---
FIF 75% (L/s)	---	02.40	---	---	---	---
SVC (L)	---	04.55	---	---	---	---
ERV (L)	01.42	02.54	179	---	---	---
IRV (L)	---	01.72	---	---	---	---
VE (L/min)	---	47.17	---	---	---	---
Rf (l/min)	---	16.67	---	---	---	---
Ti (sec)	---	00.60	---	---	---	---
Te (sec)	---	03.60	---	---	---	---
VT (L)	---	02.83	---	---	---	---
VT/Ti	---	04.72	---	---	---	---
Ti/Ttot	---	00.17	---	---	---	---
IC (L)	---	04.55	---	---	---	---
MVV (L/min)	134	076	057	---	---	---
MRI (l/min)	---	79.81	---	---	---	---
MVT (L)	---	00.96	---	---	---	---

**Pre Medication Report Indicates**  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >8

*Dr. Arjun Basu*  
 MD  
 Consultant Cardiologist



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13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145  
(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
10	FAGURAM HANSDA	34	3479

### EYE EXAMINATION

Vision Right Eye : 6/6

WITH EXISTING GLASS

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

  
Eye Consultant  
Dr. Pranab Kumar Bose  
CMS (Cal) RSO (Cal) DOS (Cal)  
Optical & Vision Care  
No. - 9436

10

ID: 26033

Faauram Hamda

Diagnosis Information:

Sinus Rhythm

\*\*\*Normal ECG\*\*\*

Male  
34 Years  
cm

mmHg

kg

HR : 75 bpm  
P : 108 ms  
PR : 140 ms  
QRS : 86 ms  
QT/QTc : 329/368 ms  
P/QRS/T : 66/81/39 °  
RV5/SV1 : 1.708/0.663 mV

Report Confirmed by:

Resting ECG is WNL

  
Dr. Arjun Basu  
MD  
Consultant Cardiologist  
Reg. No. 40586



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13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00010  
NAME : Mr. Fahu Ram Hansda  
AGE / SEX : 34 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



**CHEST - PA ERECT VIEW**

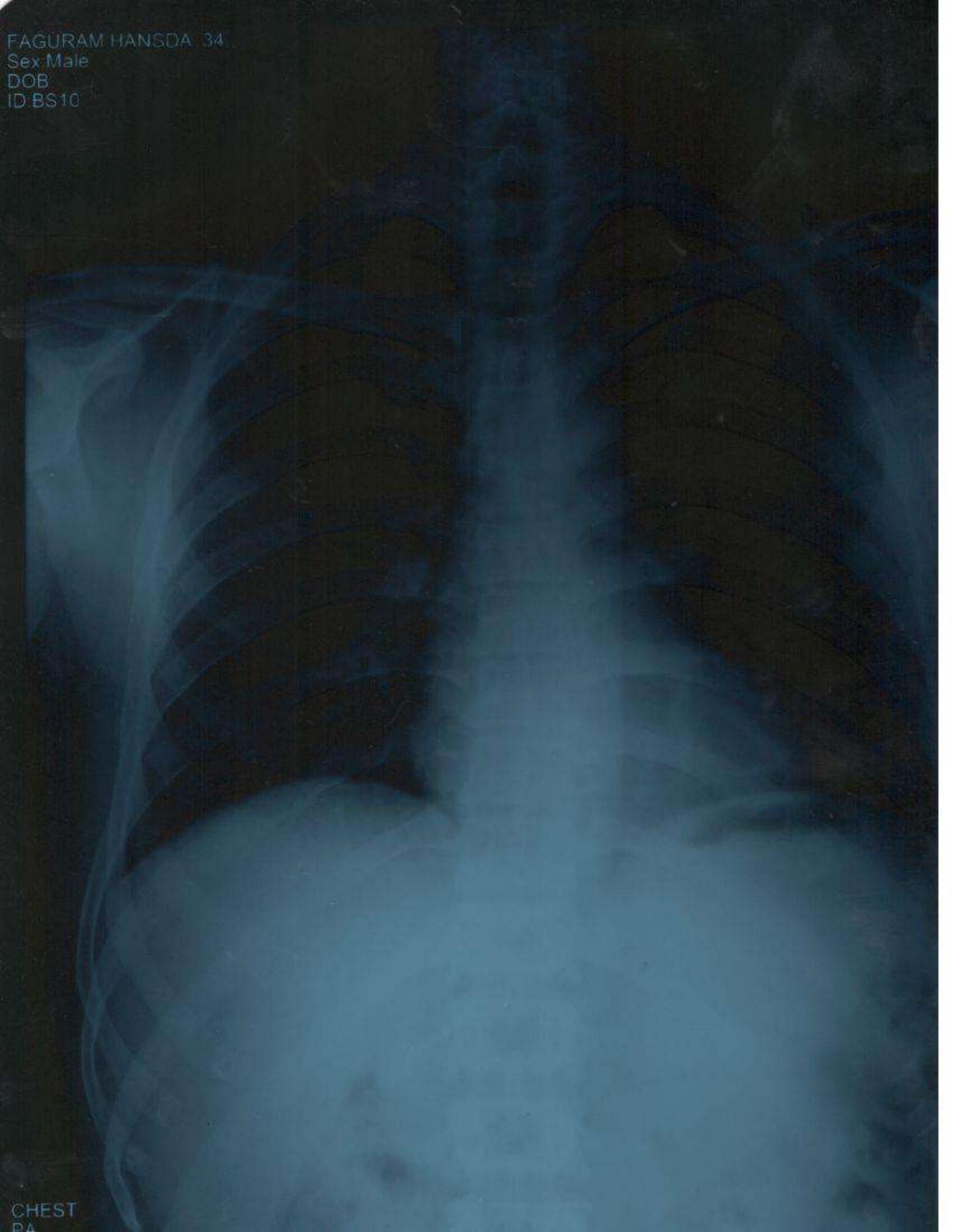
Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg No. WB MC 52151

FAGURAM HANSDA 34  
Sex Male  
DOB  
ID BS10

CHEST  
PA





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A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

## NABL Accredited Laboratory

ID NO. : BSI-50/012025/00009  
 NAME : **Mr. Biswajit Mahato**  
 AGE / SEX : 28 Years / Male  
 REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
 REPORTED ON: 08.01.2025  
 ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b>CBC (Complete Blood Count)</b>			
Haemoglobin (Hb%)	15.8	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b>TOTAL COUNT</b>			
Erythrocyte Count	5.66	million/cu.mm	4.5 - 6.5
Platelet Count	3,05,000	Per c.mm	150000 - 450000
<b>TOTAL COUNT</b>			
Leucocyte Count	8,700	/cu.mm	4000 - 10000
<b>DIFFERENTIAL COUNT</b>			
Neutrophil	64	%	51 - 75
Lymphocyte	31	%	21 - 35
Eosinophil	03	%	0 - 6
Monocyte	02	%	1 - 10
Basophil	00	%	0 - 1
PCV	44.9	%	35 - 45
MCV	79.3	fl	80 - 96
MCH	28.0	pg	27 - 30
MCHC	35.2	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	06	mm/hour	Male <70years : upto 14 Male >70years : upto 30 Female <70years : upto 20 Female >70years : upto 35
Method : Westergren Method			

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Pathy)**  
 Asst. Professor (WBMES) MD (Path)  
 Consultant Pathologist  
 Reg. No. 20217

**Dr. Jaya Das, MD**  
 Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
 Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
 Ex. Prof. Pathology (Haematology)  
 IPGME & R and SSKM Hospital  
 Consultant Pathologist



**Bravo Sponge Iron Pvt. Ltd.**

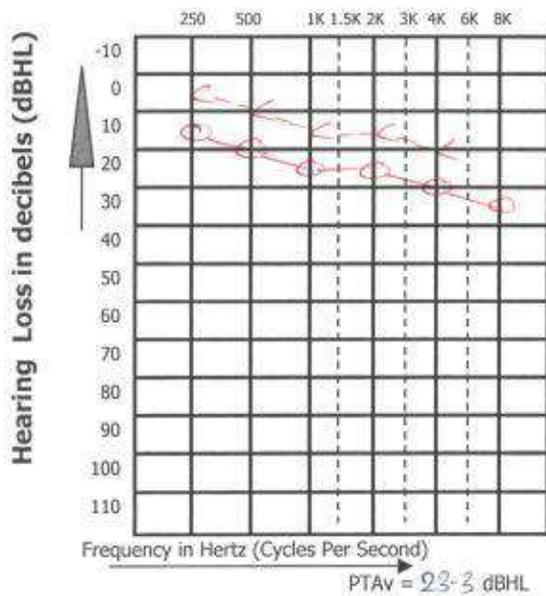
Purulia - 723145

NO	NAME	AGE	ID
9	BISWAJIT MAHATO	28	3002

**AUDIOGRAM**

CASE HISTORY

**RIGHT EAR**



	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

**RINNE TEST**

R+ve                      L+ve

**AUDIOMETRIC WEBER TEST**

R      250 Hz      L

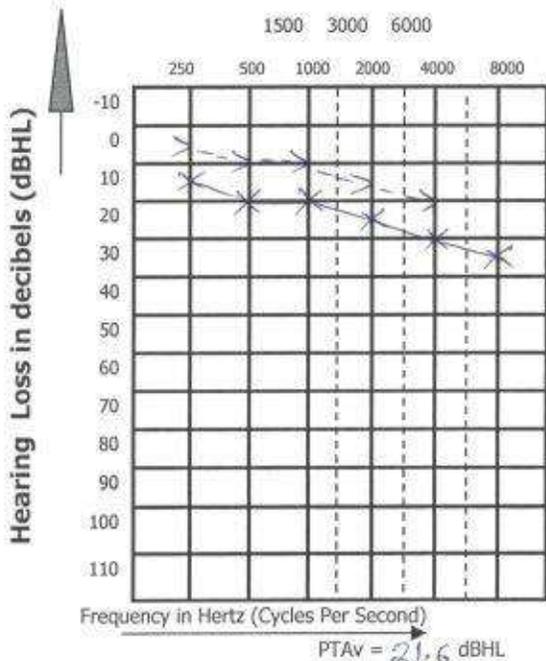
         500 Hz

         1000 Hz

         2000 Hz

         4000 Hz

**LEFT EAR**



SPEECH AUDIOMETRY RL		
SRT	R	L
SDS		
Roll Over		

SPECIAL TEST	
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K  
 P. KIMAR



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**techlab**

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Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145  
(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
9	BISWAJIT MAHATO	28	3002

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

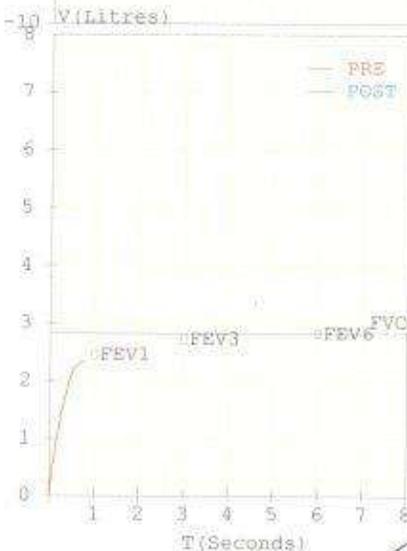
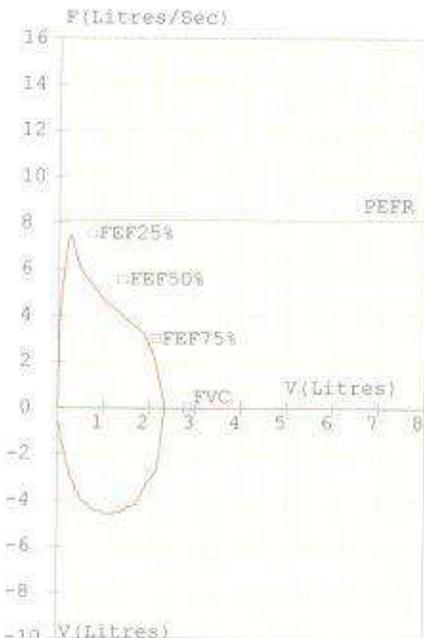
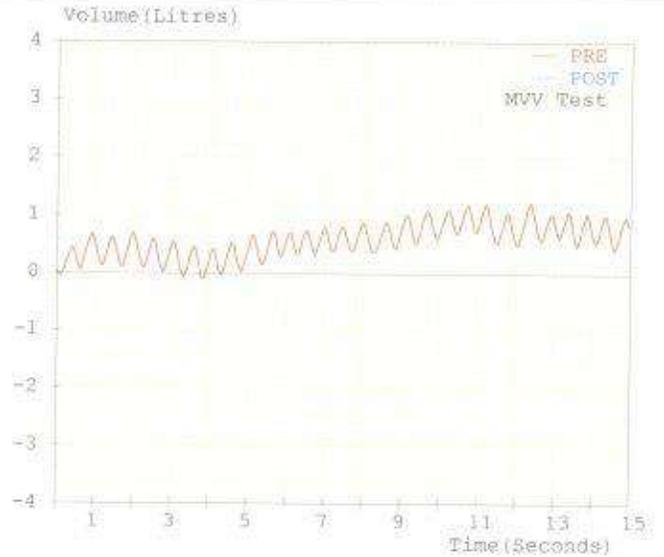
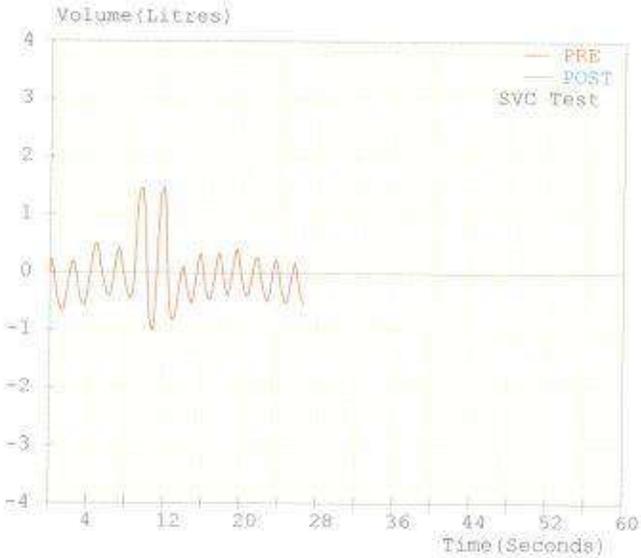
TYPE OF GLASSES -

  
Eye Consultant  
Dr. Pranab Kumar Bose  
BMS (Cal) & S. Cal DOS (Cal)  
No. 18, Eye & Vision Care  
Co-5438

Patient: BISWAJIT MAHATO  
 Refd. By:  
 Pred. Eqns: RECORDERS  
 Date : 07-Jan-2025 11:40 AM

Age : 28 Yrs  
 Height : 154 Cms  
 Weight : 53 Kgs  
 ID : BS 9

Gender : Male  
 Smoker : Yes  
 Eth. Corr: 100  
 Temp :



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	02.82	02.33	083	----	----	----
FEV1 (L)	02.44	02.33	095	----	----	----
FEV1/FVC (%)	86.52	100.00	116	----	----	----
PEF25-75 (L/s)	04.18	04.27	102	----	----	----
PEFR (L/s)	08.13	07.50	092	----	----	----
FIVC (L)	----	02.37	----	----	----	----
FEV.5 (L)	----	02.14	----	----	----	----
FEV3 (L)	02.73	02.33	085	----	----	----
PIFR (L/s)	----	04.61	----	----	----	----
PEF75-85 (L/s)	----	02.95	----	----	----	----
PEF.2-1.2 (L/s)	06.89	05.33	077	----	----	----
PEF 25% (L/s)	07.56	09.62	074	----	----	----
PEF 50% (L/s)	05.56	04.35	078	----	----	----
PEF 75% (L/s)	02.99	03.37	113	----	----	----
FEV.5/FVC (%)	----	91.85	----	----	----	----
FEV3/FVC (%)	96.81	100.00	103	----	----	----
FET (Sec)	----	00.77	----	----	----	----
ExptTime (Sec)	----	00.04	----	----	----	----
Lung Age (Yrs)	020	029	104	----	----	----
FEV6 (L)	02.82	----	----	----	----	----
FIF 25% (L/s)	----	04.15	----	----	----	----
FIF 50% (L/s)	----	04.60	----	----	----	----
FIF 75% (L/s)	----	03.95	----	----	----	----
SVC (L)	----	02.47	----	----	----	----
ERV (L)	01.36	00.55	040	----	----	----
IRV (L)	----	00.01	----	----	----	----
VE (L/min)	----	64.17	----	----	----	----
RE (l/min)	----	26.09	----	----	----	----
Ti (sec)	----	01.20	----	----	----	----
Te (sec)	----	01.10	----	----	----	----
VT (L)	----	02.46	----	----	----	----
VT/Ti	----	02.05	----	----	----	----
Ti/Ttot	----	00.52	----	----	----	----
IC (L)	----	02.47	----	----	----	----
MVV (L/min)	124	051	049	----	----	----
MRF (l/min)	----	116.19	----	----	----	----
MVT (l)	----	00.53	----	----	----	----

Pre Medication Report Indicates  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >8

Dr. Arjun Basu  
 M.D.  
 Consultant Cardiologist

ID: 26029.17 <sup>9</sup> Mubato  
Biswiyit  
Male  
28 Years  
cm kg mmHg

Diagnosis Information:  
Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

HR : 82 bpm  
P : 104 ms  
PR : 153 ms  
QRS : 87 ms  
QT/QTc : 321/375 ms  
P/QRS/T : 50/87/47 °  
RV5/SV1 : 1.090/1.046 mV

Report Confirmed by:

Fasting ECG is WNL

DR. VINEE BASU  
1999  
Cardiologist  
Reg. No. 40386



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Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00009  
NAME : Mr. Biswajit Mahato  
AGE / SEX : 28 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.

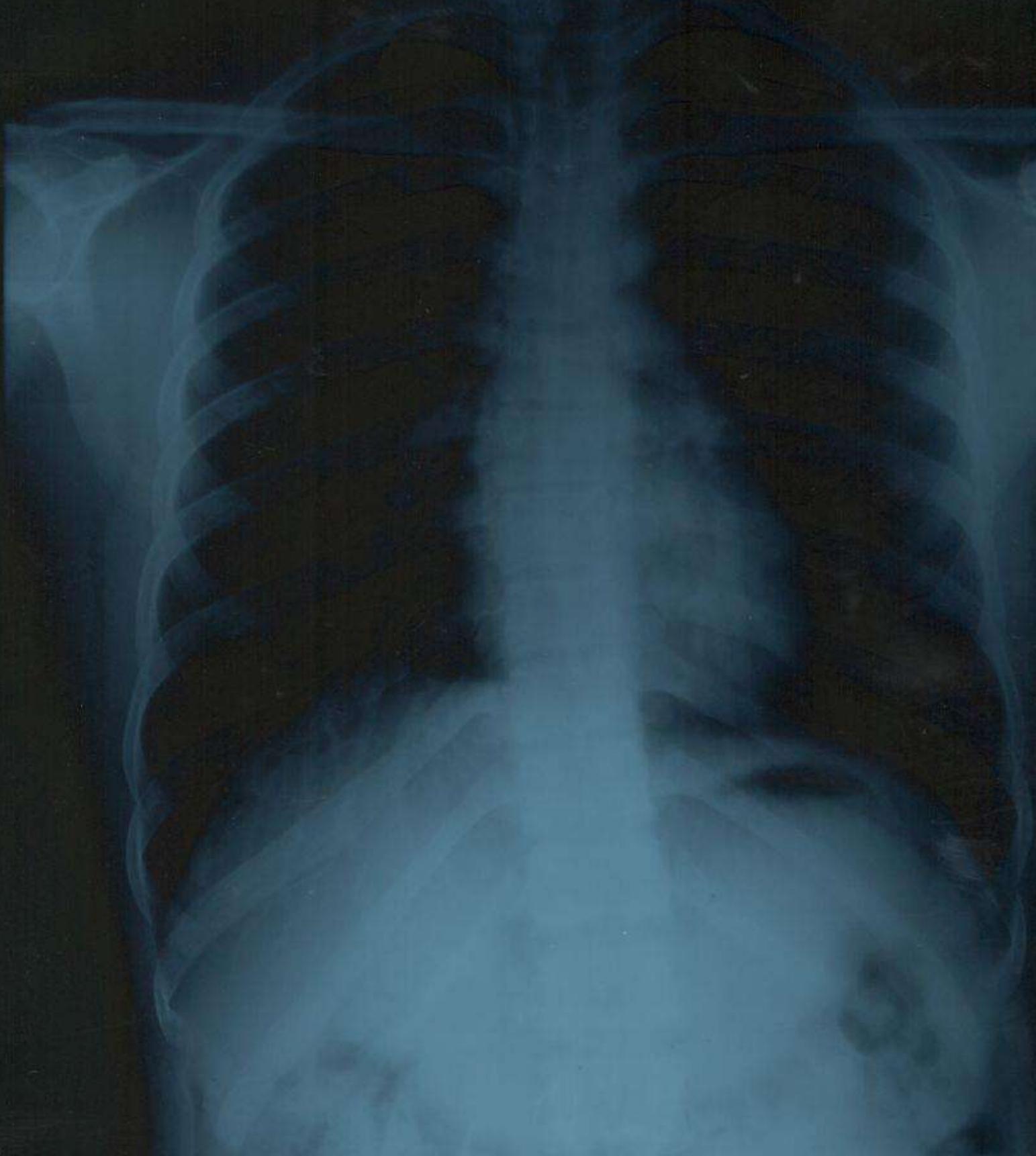


## CHEST - PA ERECT VIEW

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Right Dome is elevated.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg.No.WB MC 53151

BISWAJIT MAHATO 28.  
Sex Male  
DOB  
ID:BS9



CHEST  
PA



# techlab

## NABL Accredited Laboratory

A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

ID NO. : BSI-50/012025/00008  
NAME : **Mr. Rahul Mondal**  
AGE / SEX : 28 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b><u>CBC (Complete Blood Count)</u></b>			
Haemoglobin (Hb%)	14.5	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b><u>TOTAL COUNT</u></b>			
Erythrocyte Count	4.29	million/cu.mm	4.5 - 6.5
Platelet Count	2,45,000	Per c.mm	150000 - 450000
<b><u>TOTAL COUNT</u></b>			
Leucocyte Count	8,900	/cu.mm	4000 - 10000
<b><u>DIFFERENTIAL COUNT</u></b>			
Neutrophil	67	%	51 - 75
Lymphocyte	30	%	21 - 35
Eosinophil	02	%	0 - 6
Monocyte	01	%	1 - 10
Basophil	00	%	0 - 1
PCV	40.1	%	35 - 45
MCV	93.3	fl	80 - 96
MCH	33.9	pg	27 - 30
MCHC	36.3	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	04	mm/hour	Male <70years : upto 14 Male >70years : upto 30 Female <70years : upto 20 Female >70years : upto 35

Method : Westergren Method

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMES)  
Consultant Pathologist

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist

2025.01.08 10:00 AM

2025.01.08 10:00 AM



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13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095

NABL Accredited Laboratory

Email : tlab\_2006@hotmail.com

## Bravo Sponge Iron Pvt. Ltd.

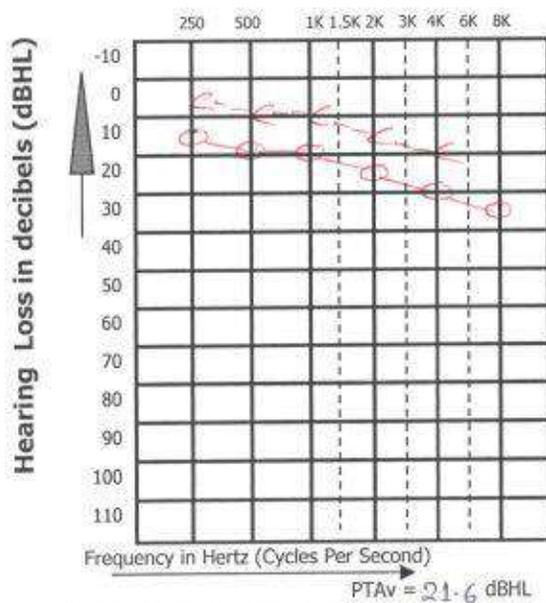
Purulia - 723145

NO	NAME	AGE	ID
8	RAHUL MONDAL	28	3555

### AUDIOGRAM

#### CASE HISTORY

#### RIGHT EAR



	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

#### RINNE TEST

R +ve                      L +ve

**AUDIOMETRIC WEBER TEST**

R      250 Hz      L

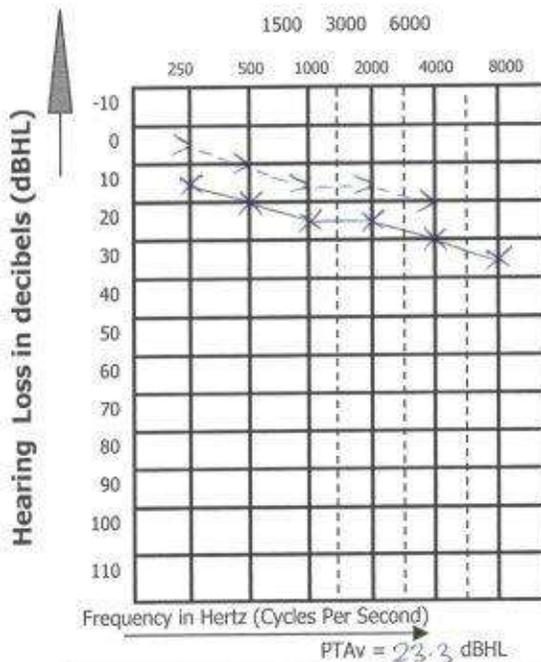
         500 Hz

         1000 Hz

         2000 Hz

         4000 Hz

#### LEFT EAR



SPEECH AUDIOMETRY RL		
SRT	R	L
SDS		
Roll Over		

SPECIAL TEST	
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K

Patient: RAHUL MONDAL

Refd. By:

Pred. Eqns: RECORDERS

Date : 07-Jan-2025 11:28 AM

Age : 28 Yrs

Height : 175 Cms

Weight : 81 Kgs

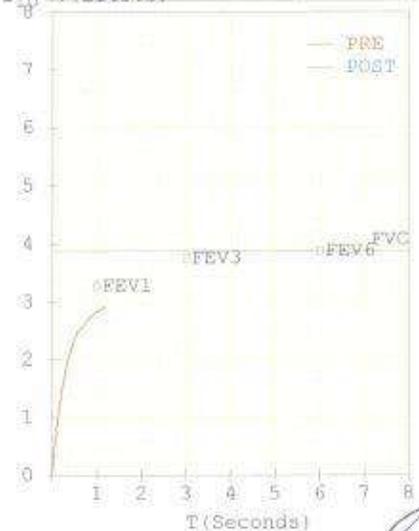
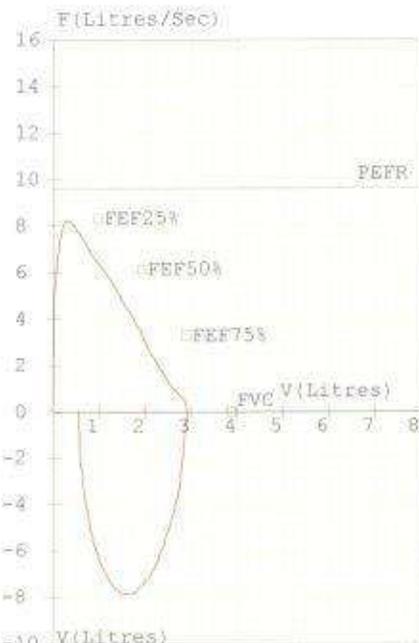
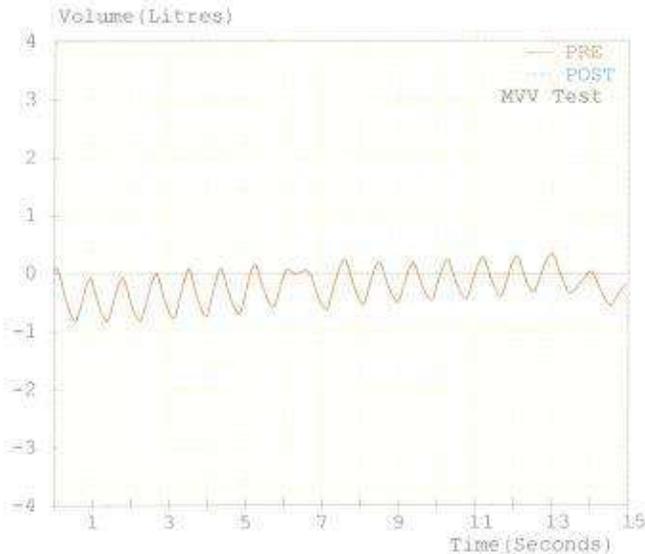
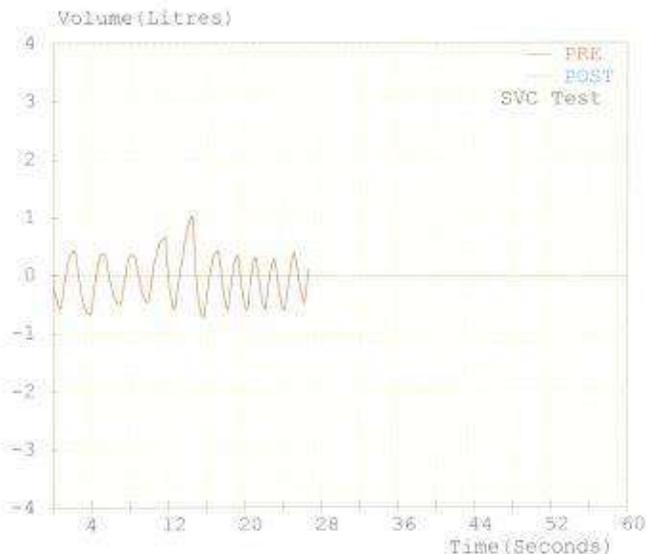
ID : BS 8

Gender : Male

Smoker : No

Eth. Corr: 100

Temp :



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.87	02.92	075	---	---	---
FEV1 (L)	03.28	02.83	086	---	---	---
FEV1/FVC (%)	84.75	96.92	114	---	---	---
FEF25-75 (L/s)	04.58	04.32	094	---	---	---
PEFR (L/s)	09.62	08.14	085	---	---	---
FIVC (L)	---	02.34	---	---	---	---
FEV.5 (L)	---	02.34	---	---	---	---
FEV3 (L)	03.75	02.92	078	---	---	---
PIFR (L/s)	---	07.84	---	---	---	---
FEF75-85 (L/s)	---	01.75	---	---	---	---
FEF.2-1.2 (L/s)	07.96	06.93	087	---	---	---
FEF 25% (L/s)	08.30	07.06	085	---	---	---
FEF 50% (L/s)	06.11	04.87	080	---	---	---
FEF 75% (L/s)	03.28	02.32	071	---	---	---
FEV.5/FVC (%)	---	80.14	---	---	---	---
FEV3/FVC (%)	96.90	100.00	103	---	---	---
FET (Sec)	---	01.23	---	---	---	---
ExptTime (Sec)	---	00.04	---	---	---	---
Lung Age (Yrs)	028	032	114	---	---	---
FEV6 (L)	03.87	---	---	---	---	---
FIF 25% (L/s)	---	00.27	---	---	---	---
FIF 50% (L/s)	---	06.11	---	---	---	---
FIF 75% (L/s)	---	07.77	---	---	---	---
SVC (L)	---	01.76	---	---	---	---
ERV (L)	01.58	01.11	070	---	---	---
IRV (L)	---	00.36	---	---	---	---
VE (L/min)	---	27.00	---	---	---	---
RF (L/min)	---	21.43	---	---	---	---
Ti (sec)	---	01.90	---	---	---	---
Te (sec)	---	00.90	---	---	---	---
VT (L)	---	01.26	---	---	---	---
VT/Ti	---	00.66	---	---	---	---
Ti/Ttot	---	00.68	---	---	---	---
IC (L)	---	01.62	---	---	---	---
MVV (L/min)	149	047	032	---	---	---
MRF (L/min)	---	70.12	---	---	---	---
MVT (L)	---	00.67	---	---	---	---

Pre Medication Report Indicates

Mild Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <80

Dr. Arjun Basu

MD

Consultant Cardiologist



NABL Accredited Laboratory

**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145

(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
8	RAHUL MONDAL	28	3555

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

Eye Consultant

Dr. Pratik Kumar Bose  
DMS (C) & S. (C) / DOS (Cal)  
Optometrist, Eye & Vision Care  
Reg. No.-9436

D: 26028  
Ishut Mondal  
female  
28 Years  
cm  
kg  
mmHg

HR : 92 bpm  
PR : 106 ms  
QR : 163 ms  
QRS : 76 ms  
QT/QTc : 323/401 ms  
QRS/T : 56/38/12 °  
V5/SV1 : 1.269/1.050 mV

Resting ECG is WNL



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Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00008  
NAME : Mr. Rahul Mondal  
AGE / SEX : 28 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



## CHEST - PA ERECT VIEW

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg.No.WB MC 53151

3cm

8cm





# techlab

A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. - 8 p.m.; Sun 2 p.m. to p.m.

## NABL Accredited Laboratory

ID NO. : BSI-50/012025/00007  
 NAME : **Mr. Prabir Maity**  
 AGE / SEX : 26 Years / Male  
 REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
 REPORTED ON: 08.01.2025  
 ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b>CBC (Complete Blood Count)</b>			
Haemoglobin (Hb%)	12.7	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b>TOTAL COUNT</b>			
Erythrocyte Count	5.11	million/cu.mm	4.5 - 6.5
Platelet Count	1,80,000	Per c.mm	150000 - 450000
<b>TOTAL COUNT</b>			
Leucocyte Count	7,100	/cu.mm	4000 - 10000
<b>DIFFERENTIAL COUNT</b>			
Neutrophil	62	%	51 - 75
Lymphocyte	33	%	21 - 35
Eosinophil	03	%	0 - 6
Monocyte	02	%	1 - 10
Basophil	00	%	0 - 1
PCV	37.6	%	35 - 45
MCV	73.6	fl	80 - 96
MCH	24.8	pg	27 - 30
MCHC	33.7	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	06	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35
Method : Westergren Method			

-----End of Report-----

# Please correlate with the clinical conditions.

**Dr. Debasis Bhattacharya, MD (Path)**  
 Asst. Professor (WBMESS) (Path)  
 Consultant Pathologist  
 Consultant Pathologist  
 Reg. No. - 48167

**Dr. Jaya Das, MD**  
 Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
 Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
 Ex. Prof. Pathology (Haematology)  
 IPGME & R and SSKM Hospital  
 Consultant Pathologist



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Email : tlab\_2006@hotmail.com

**Bravo Sponge Iron Pvt. Ltd.**

Purulia - 723145

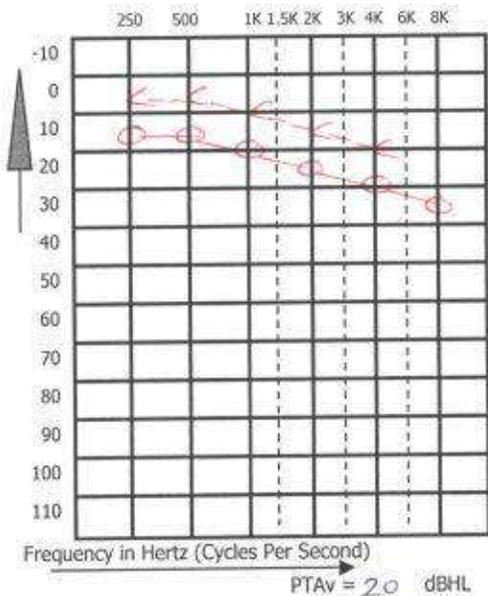
NO	NAME	AGE	ID
7	PRABIR MAITY	26	3554

**AUDIOGRAM**

CASE HISTORY

**RIGHT EAR**

Hearing Loss in decibels (dBHL)

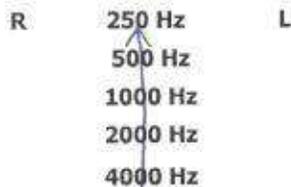


	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

**RINNE TEST**

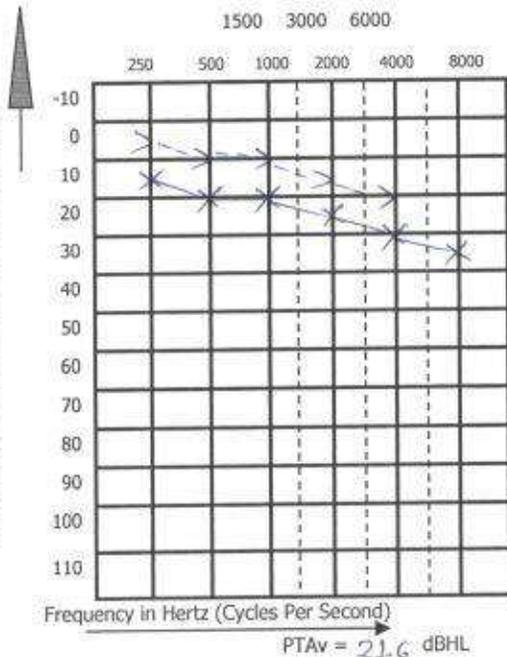
R +ve                      L +ve

**AUDIOMETRIC WEBER TEST**



**LEFT EAR**

Hearing Loss in decibels (dBHL)



**SPEECH AUDIOMETRY RL**

	R	L
SRT		
SDS		
Roll Over		

**SPECIAL TEST**

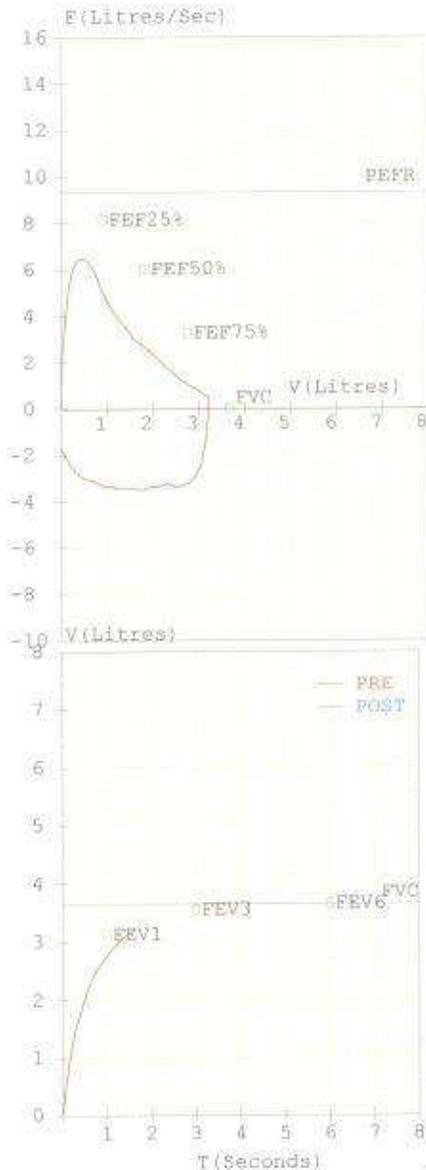
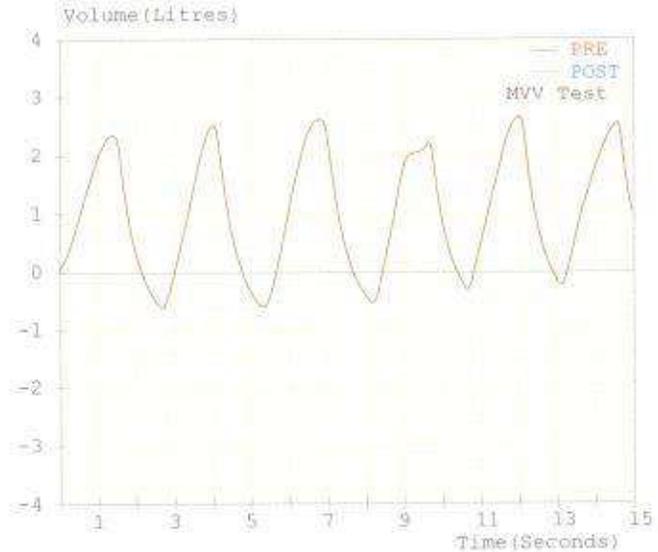
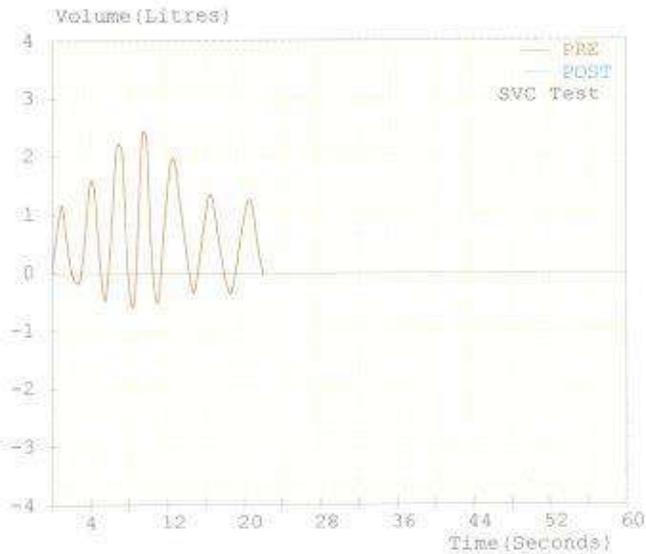
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K

Patient: PRABIR MAITY  
 Refd. By:  
 Pred. Eqns: RECORDERS  
 Date : 07-Jan-2025 11:08 AM

Age : 26 Yrs  
 Height : 170 Cms  
 Weight : 83 Kgs  
 ID : BS 7

Gender : Male  
 Smoker : Yes  
 Eth. Corr: 100  
 Temp :



**Spirometry Results**

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.65	03.20	088	---	---	---
FEV1 (L)	03.12	02.78	089	---	---	---
FEV1/FVC (%)	85.48	86.88	102	---	---	---
FEF25-75 (L/s)	04.57	02.81	061	---	---	---
PEFR (L/s)	09.34	06.43	069	---	---	---
FIVC (L)	---	01.39	---	---	---	---
FEV.5 (L)	---	02.03	---	---	---	---
FEV3 (L)	03.54	03.20	090	---	---	---
PIFR (L/s)	---	03.48	---	---	---	---
FEF75-85 (L/s)	---	01.26	---	---	---	---
FEF.2-1.2 (L/s)	07.84	08.33	068	---	---	---
FEF 25% (L/s)	08.16	05.51	068	---	---	---
FEF 50% (L/s)	06.04	02.92	048	---	---	---
FEF 75% (L/s)	03.29	01.56	047	---	---	---
FEV.5/FVC (%)	---	63.44	---	---	---	---
FEV3/FVC (%)	96.99	100.00	103	---	---	---
PET (Sec)	---	01.61	---	---	---	---
ExptTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	026	829	112	---	---	---
FEV6 (L)	03.65	---	---	---	---	---
PIF 25% (L/s)	---	03.28	---	---	---	---
PIF 50% (L/s)	---	03.40	---	---	---	---
PIF 75% (L/s)	---	02.98	---	---	---	---
SVC (L)	---	03.05	---	---	---	---
ERV (L)	01.55	00.11	007	---	---	---
IRV (L)	---	00.20	---	---	---	---
VE (L/min)	---	58.97	---	---	---	---
RF (l/min)	---	20.69	---	---	---	---
Ti (sec)	---	01.40	---	---	---	---
Te (sec)	---	01.50	---	---	---	---
VT (L)	---	02.85	---	---	---	---
VT/Ti	---	02.04	---	---	---	---
Ti/Ttot	---	00.48	---	---	---	---
IC (L)	---	03.05	---	---	---	---
MVV (L/min)	144	069	048	---	---	---
MRF (l/min)	---	24.04	---	---	---	---
MVT (L)	---	02.86	---	---	---	---

**Pre Medication Report Indicates**

Early Small Airway Obstruction as FEF 25-75 %Pred or PEFr %Pred < 70  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >8

*Dr. Arjun Basu*  
 MD  
 Consultant Cardiologist



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Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145

(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
7	PRABIR MAITY	26	3554

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

Eye Consultant  
Dr. Pranab Kumar Bose  
DMS (Cal), ESC (Cal), DCS (Cal)  
Optometric, Eye & Vision Care  
Ph. No.- 9436

7

Diagnosis Information:  
Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

ID: 26027  
Prabir Maity  
Male  
26 Years  
cm  
mmHg  
kg

HR	: 69	bpm
P	: 101	ms
PR	: 150	ms
QRS	: 91	ms
QT/QTc	: 343/368	ms
P/QRS/T	: 53/72/37	°
RV5/SV1	: 1.622/0.416	mV

Report Confirmed by:

Resting ECG is WNL



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**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00007  
NAME : Mr. Prabir Maity  
AGE / SEX : 26 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



BSI-50/012025/00007

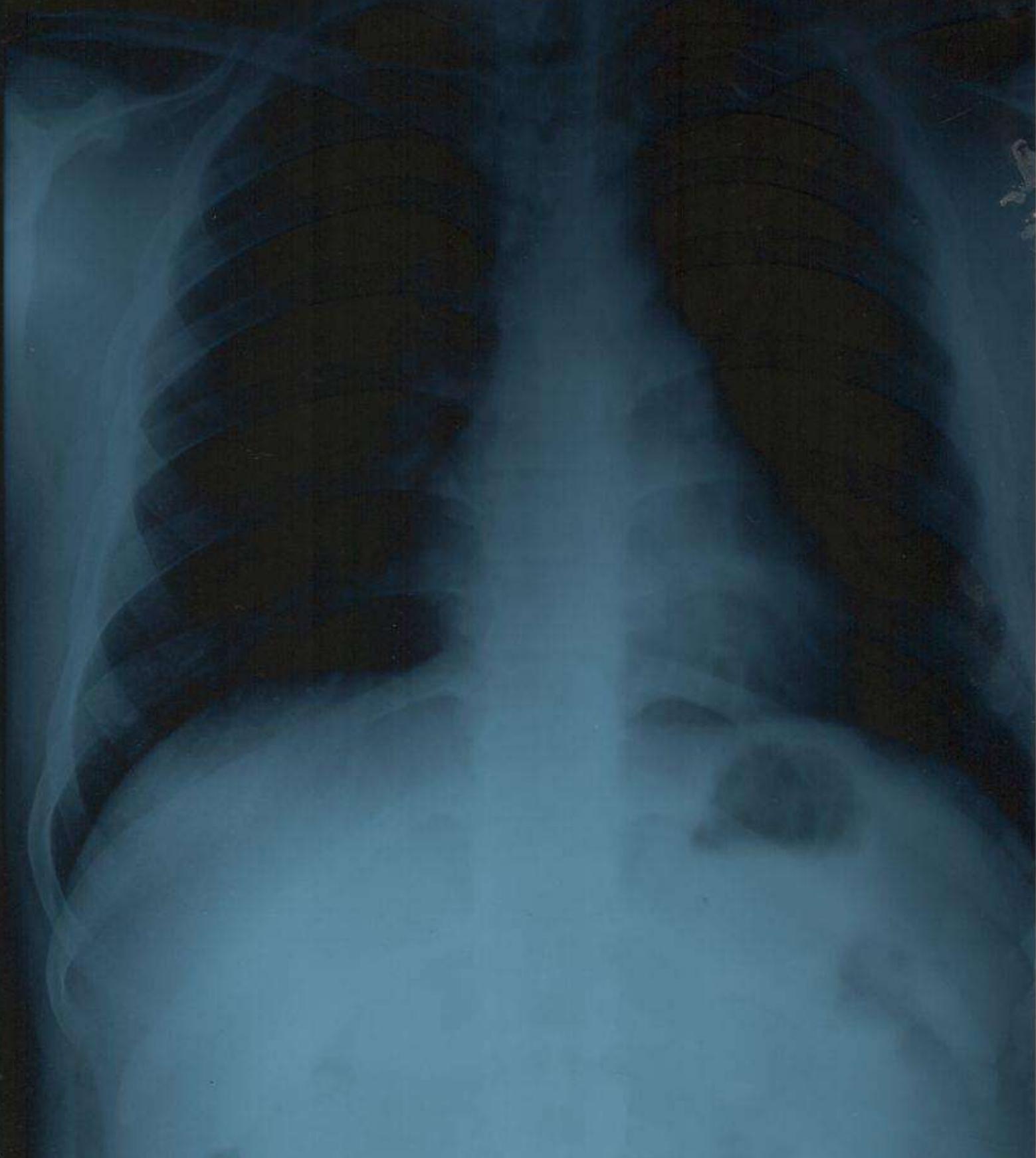
### CHEST - PA ERECT VIEW

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg No WB MC 53151

PRABIR MAITY 26  
Sex Male  
DOB  
ID:BS7



CHEST  
PA



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*A Computerised Path Lab*

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

ID NO. : BSI-50/012025/00006  
NAME : **Mr. Prasanjeet Gorai**  
AGE / SEX : 26 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b><u>CBC (Complete Blood Count)</u></b>			
Haemoglobin (Hb%)	14.6	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b><u>TOTAL COUNT</u></b>			
Erythrocyte Count	4.73	million/cu.mm	4.5 - 6.5
Platelet Count	1,85,000	Per c.mm	150000 - 450000
<b><u>TOTAL COUNT</u></b>			
Leucocyte Count	8,700	/cu.mm	4000 - 10000
<b><u>DIFFERENTIAL COUNT</u></b>			
Neutrophil	71	%	51 - 75
Lymphocyte	25	%	21 - 35
Eosinophil	02	%	0 - 6
Monocyte	02	%	1 - 10
Basophil	00	%	0 - 1
PCV	40.4	%	35 - 45
MCV	85.4	fl	80 - 96
MCH	30.9	pg	27 - 30
MCHC	36.2	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	07	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35
Method : Westergren Method			

-----End of Report-----

# Please correlate with the clinical conditions.

**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMES)  
Consultant Pathologist

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist



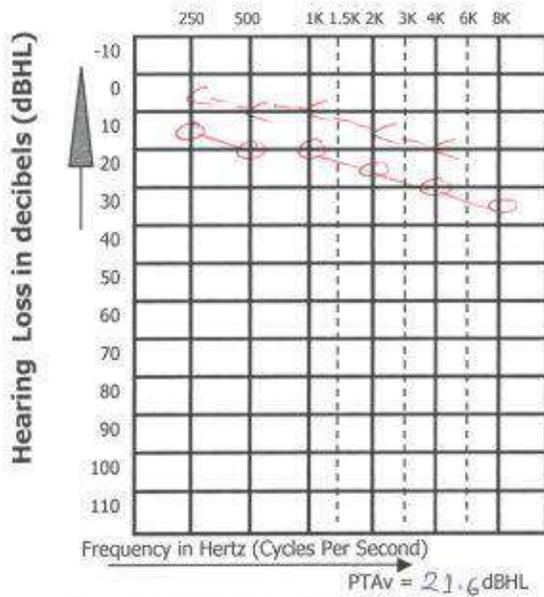
**Bravo Sponge Iron Pvt. Ltd.**  
 Purulia - 723145

NO	NAME	AGE	ID
6	PRASANJEET GORAI	26	3630

### AUDIOGRAM

### CASE HISTORY

#### RIGHT EAR



	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

### RINNE TEST

R +ve                      L +ve

### AUDIOMETRIC WEBER TEST

R                      L

250 Hz

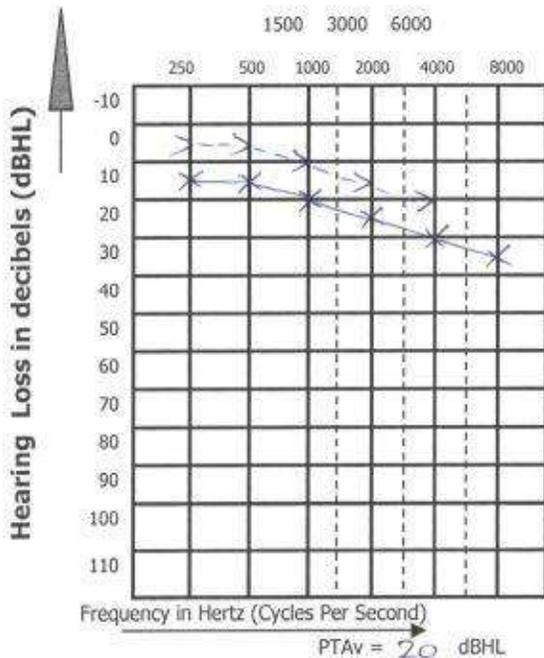
500 Hz

1000 Hz

2000 Hz

4000 Hz

#### LEFT EAR



### SPEECH AUDIOMETRY RL

SRT	R	L
SDS		
Roll Over		

### SPECIAL TEST

R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K

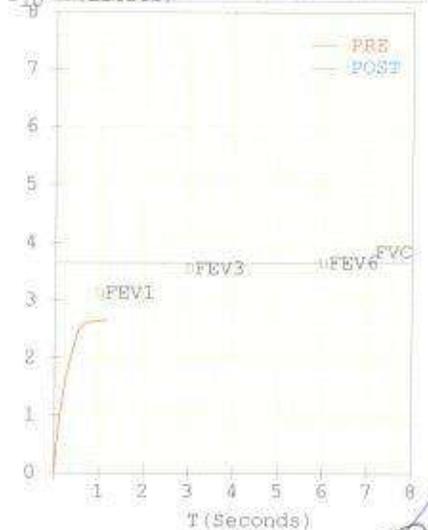
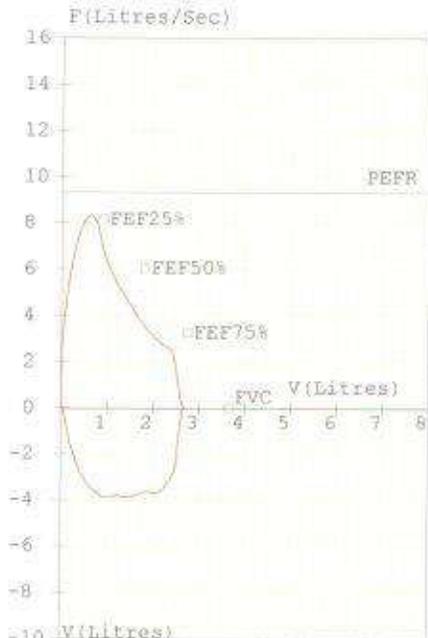
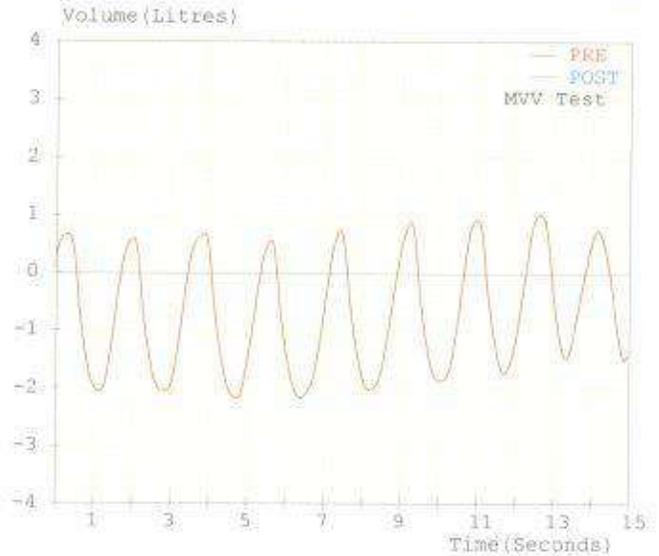
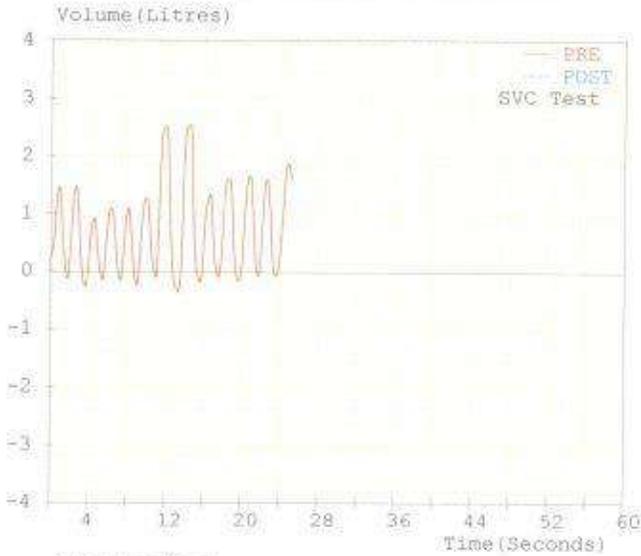
B.KUMAR

13/1C, Balaram Ghosh Street, Kolkata - 700004

Patient: PRASENJIT HORAI  
 Refd. By:  
 Pred. Eqns: RECORDERS  
 Date : 07-Jan-2025 11:42 AM

Age : 26 Yrs  
 Height : 170 Cms  
 Weight : 53 Kgs  
 ID : BS 6

Gender : Male  
 Smoker : No  
 Eth. Corr: 100  
 Temp :



Spirometry Results

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.65	02.67	073	---	---	---
FEV1 (L)	03.12	02.67	086	---	---	---
FEV1/FVC (%)	85.48	100.00	117	---	---	---
FEF25-75 (L/s)	04.57	04.73	104	---	---	---
PEFR (L/s)	09.34	08.22	088	---	---	---
FIVC (L)	---	02.65	---	---	---	---
FEV.5 (L)	---	02.38	---	---	---	---
FEV3 (L)	03.54	02.67	075	---	---	---
PIFR (L/s)	---	03.86	---	---	---	---
FEF75-85 (L/s)	---	02.74	---	---	---	---
FEF.2-1.2(L/s)	07.84	66.88	080	---	---	---
FEF 25% (L/s)	08.16	08.20	100	---	---	---
FEF 50% (L/s)	06.04	04.92	081	---	---	---
FEF 75% (L/s)	03.29	03.10	094	---	---	---
FEV.5/FVC (%)	---	89.14	---	---	---	---
FEV3/FVC (%)	96.99	100.00	103	---	---	---
FET (Sec)	---	01.11	---	---	---	---
ExpTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	026	030	115	---	---	---
FEV6 (L)	03.65	---	---	---	---	---
FIF 25% (L/s)	---	03.71	---	---	---	---
FIF 50% (L/s)	---	03.84	---	---	---	---
FIF 75% (L/s)	---	03.58	---	---	---	---
SVC (L)	---	02.91	---	---	---	---
ERV (L)	01.55	00.24	015	---	---	---
IRV (L)	---	00.03	---	---	---	---
VE (L/min)	---	72.00	---	---	---	---
Rf (l/min)	---	25.00	---	---	---	---
Ti (sec)	---	01.10	---	---	---	---
Ta (sec)	---	01.30	---	---	---	---
VT (L)	---	02.88	---	---	---	---
VT/Ti	---	02.62	---	---	---	---
Ti/Ttot	---	00.46	---	---	---	---
IC (L)	---	02.91	---	---	---	---
MVV (L/min)	144	096	067	---	---	---
MRI (l/min)	---	36.06	---	---	---	---
MVT (L)	---	02.65	---	---	---	---

Pre Medication Report Indicates  
 Mild Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <80.

Dr. Arjun Basu  
 MD

Consultant Cardiologist  
 Reg No. 107



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**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145  
(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
6	PRASANJEET GORAI	26	3630

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

  
Eye Consultant  
**Dr. Pranab Kumar Bose**  
DMS (Cal) | ES&V (Cal) | DGS (Cal)  
Optometrist, Eye & Vision Care  
Ph. No.- 9436

SPL

26031 / 6  
Asanjeet Gora  
mmHg

kg

Diagnosis Information:  
Sinus Rhythm  
\*\*\*Normal ECG\*\*\*

: 72 bpm  
: 89 ms  
: 121 ms  
: 82 ms  
: 349/383 ms  
: 74/79/65 °  
: 0.964/0.652 mV

Report Confirmed by:

Resting ECG is WNL



NABL Accredited Laboratory

**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00006  
NAME : Mr. Prasanjeet Gorai  
AGE / SEX : 26 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



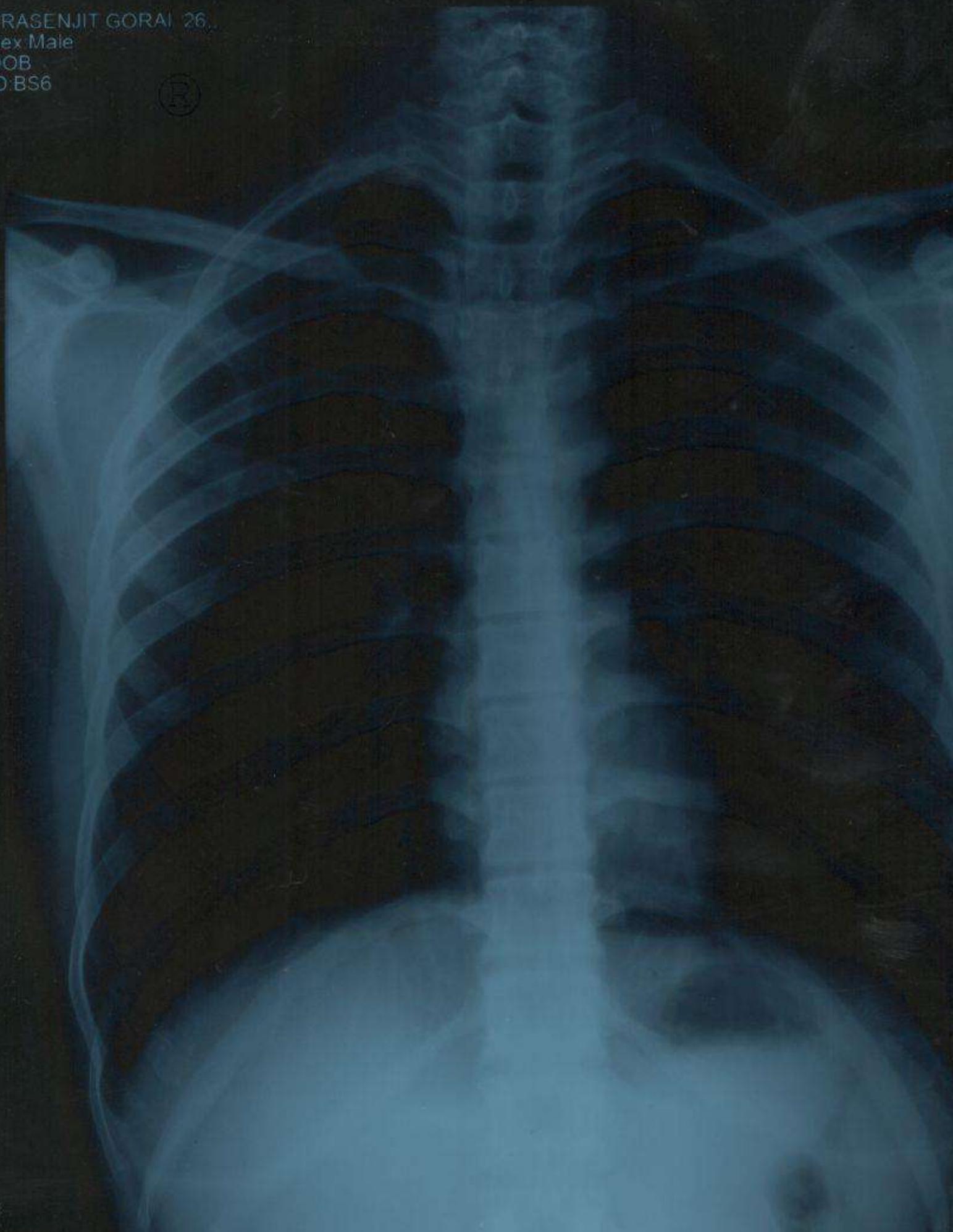
**CHEST - PA ERECT VIEW**

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist

PRASENJIT GORAI 26  
Sex: Male  
DOB  
ID: BS6



CHEST  
PA



# techlab

A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. 8 p.m., Sun 2 p.m. to p.m.

## NABL Accredited Laboratory

ID NO. : BSI-50/012025/00004  
NAME : **Mr. Jitendra Kumar**  
AGE / SEX : 36 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b>CBC (Complete Blood Count)</b>			
Haemoglobin (Hb%)	12.3	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b>TOTAL COUNT</b>			
Erythrocyte Count	6.44	million/cu.mm	4.5 - 6.5
Platelet Count	2,55,000	Per c.mm	150000 - 450000
<b>TOTAL COUNT</b>			
Leucocyte Count	11,200	/cu.mm	4000 - 10000
<b>DIFFERENTIAL COUNT</b>			
Neutrophil	77	%	51 - 75
Lymphocyte	20	%	21 - 35
Eosinophil	01	%	0 - 6
Monocyte	02	%	1 - 10
Basophil	00	%	0 - 1
PCV	57.8	%	35 - 45
MCV	89.8	fl	80 - 96
MCH	19.2	pg	27 - 30
MCHC	21.4	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	03	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35
Method : Westergren Method			

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMES) (Path)  
Consultant Pathologist  
Com. Pathology Dept  
IPGME & R  
11/11/2025

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist



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 Email : tlab\_2006@hotmail.com

**Bravo Sponge Iron Pvt. Ltd.**  
 Purulia - 723145

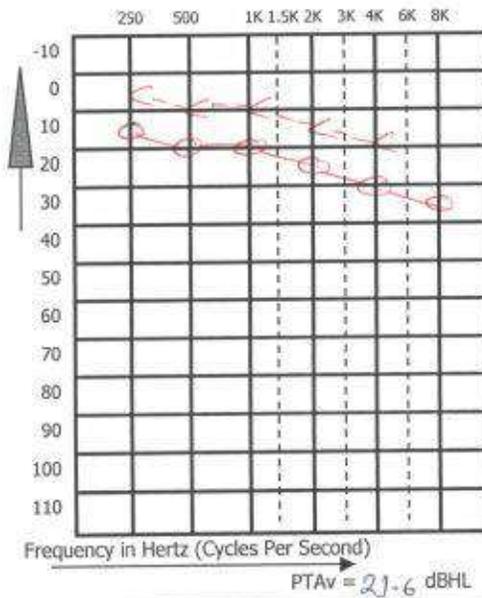
NO	NAME	AGE	ID
4	JIT CHANDRA KUMAR	36	2858

### AUDIOGRAM

### CASE HISTORY

#### RIGHT EAR

Hearing Loss in decibels (dBHL)



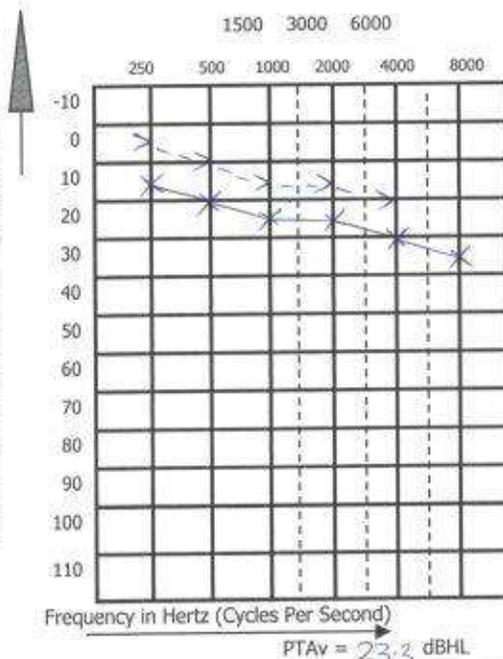
	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

### RINNE TEST

R +ve                      L +ve  
**AUDIOMETRIC WEBER TEST**  
 R      250 Hz              L  
          500 Hz  
          1000 Hz  
          2000 Hz  
          4000 Hz

#### LEFT EAR

Hearing Loss in decibels (dBHL)



### SPEECH AUDIOMETRY RL

	R	L
SRT		
SDS		
Roll Over		

### SPECIAL TEST

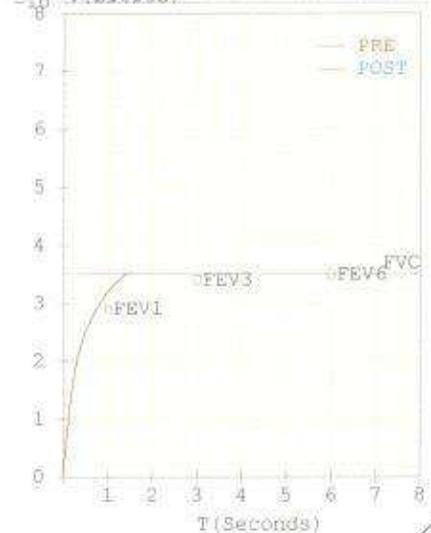
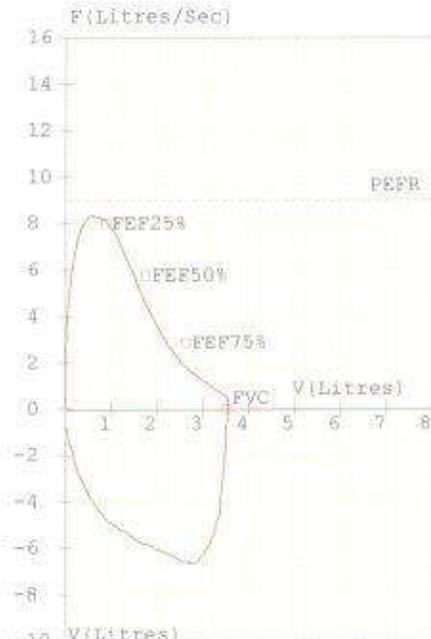
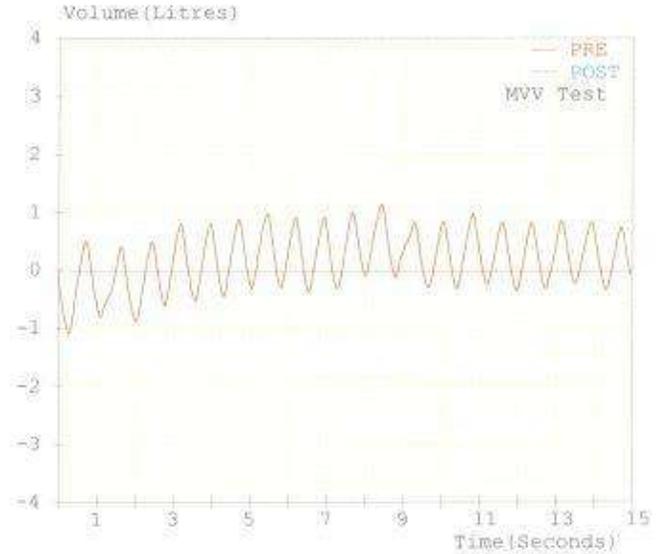
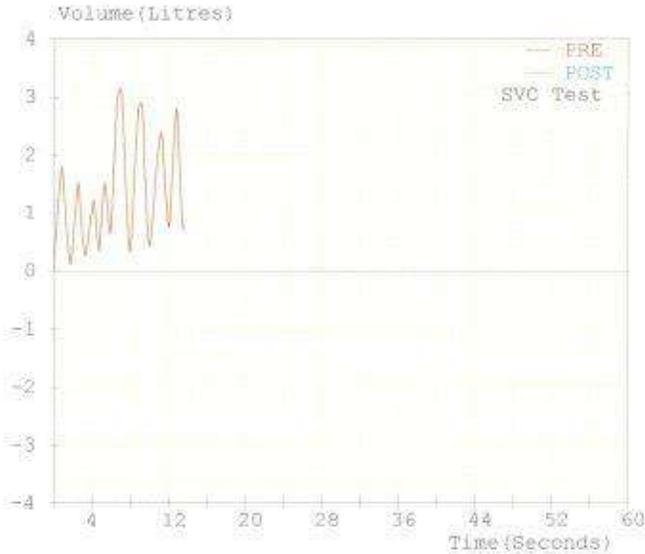
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K.  
 B.KUMAR

Patient: JITENDRA KUMAR  
 Refd.By:  
 Pred.Eqns: RECORDERS  
 Date : 07-Jan-2025 11:05 AM

Age : 36 Yrs  
 Height : 170 Cms  
 Weight : 80 Kgs  
 ID : BS 4

Gender : Male  
 Eth. Corr: 100  
 Temp :



Spirometry Results							
Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	03.51	03.55	101	-----	---	---
FEV1	(L)	02.91	03.20	110	-----	---	---
FEV1/FVC	(%)	82.91	90.14	109	-----	---	---
FEF25-75	(L/s)	04.12	03.70	090	-----	---	---
PEFR	(L/s)	08.99	08.24	092	-----	---	---
FIMC	(L)	-----	03.64	---	-----	---	---
FEV.5	(L)	-----	02.50	---	-----	---	---
FEV3	(L)	03.40	03.55	104	-----	---	---
PIPR	(L/s)	-----	06.65	---	-----	---	---
PEF75-85	(L/s)	-----	01.42	---	-----	---	---
FEF.2-1.2	(L/s)	07.16	07.69	107	-----	---	---
FEF 25%	(L/s)	07.96	07.92	099	-----	---	---
FEF 50%	(L/s)	05.74	04.41	077	-----	---	---
FEF 75%	(L/s)	02.88	01.70	059	-----	---	---
FEV.5/FVC	(%)	-----	70.42	---	-----	---	---
FEV3/FVC	(%)	96.87	100.00	103	-----	---	---
PET	(Sec)	-----	01.54	---	-----	---	---
ExpTime	(Sec)	-----	00.05	---	-----	---	---
Lung Age	(Yrs)	036	032	089	-----	---	---
FEV6	(L)	03.51	-----	---	-----	---	---
FIF 25%	(L/s)	-----	06.54	---	-----	---	---
FIF 50%	(L/s)	-----	05.74	---	-----	---	---
FIF 75%	(L/s)	-----	04.36	---	-----	---	---
SVC	(L)	-----	03.45	---	-----	---	---
ERV	(L)	01.42	01.05	074	-----	---	---
IRV	(L)	-----	01.63	---	-----	---	---
VE	(L/min)	-----	44.50	---	-----	---	---
RF	(l/min)	-----	59.00	---	-----	---	---
Ti	(sec)	-----	00.60	---	-----	---	---
Te	(sec)	-----	00.60	---	-----	---	---
VT	(L)	-----	00.89	---	-----	---	---
VT/Ti		-----	01.48	---	-----	---	---
Ti/Ttot		-----	00.50	---	-----	---	---
IC	(L)	-----	02.52	---	-----	---	---
MVV	(L/min)	136	095	070	-----	---	---
MRf	(l/min)	-----	78.13	---	-----	---	---
MVT	(L)	-----	01.21	---	-----	---	---

Pre Medication Report Indicates  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >8

*Dr. Arjun Basu*  
 MD  
 Consultant Cardiologist

A

ID: 26073

Jitendra Kumar

Male

36 Years

cm

mmHg

kg

Diagnosis Information:

Sinus Rhythm

\*\*\*Normal ECG\*\*\*

HR : 62 bpm  
P : 86 ms  
PR : 149 ms  
QRS : 72 ms  
QT/QTc : 362/369 ms  
P/QRS/T : 20/63/34 °  
RV5/SV1 : 1.140/0.874 mV

Report Confirmed by:

CMR/CIART

Resting ECG is WNL



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Brovo Sponge Iron PVT LTD.  
Purulia -723145  
(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
4	JIT CHANDRA KUMAR	36	2858

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

Eye Consultant

Dr. Pranchi Kumar Bose  
DMS (Cal), BSc (Cal) DOS (Cal)  
Optometrist, Eye & Vision Care  
Reg. No:- 9436



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Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00004  
NAME : Mr. Jitendra Kumar  
AGE / SEX : 36 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
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ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.



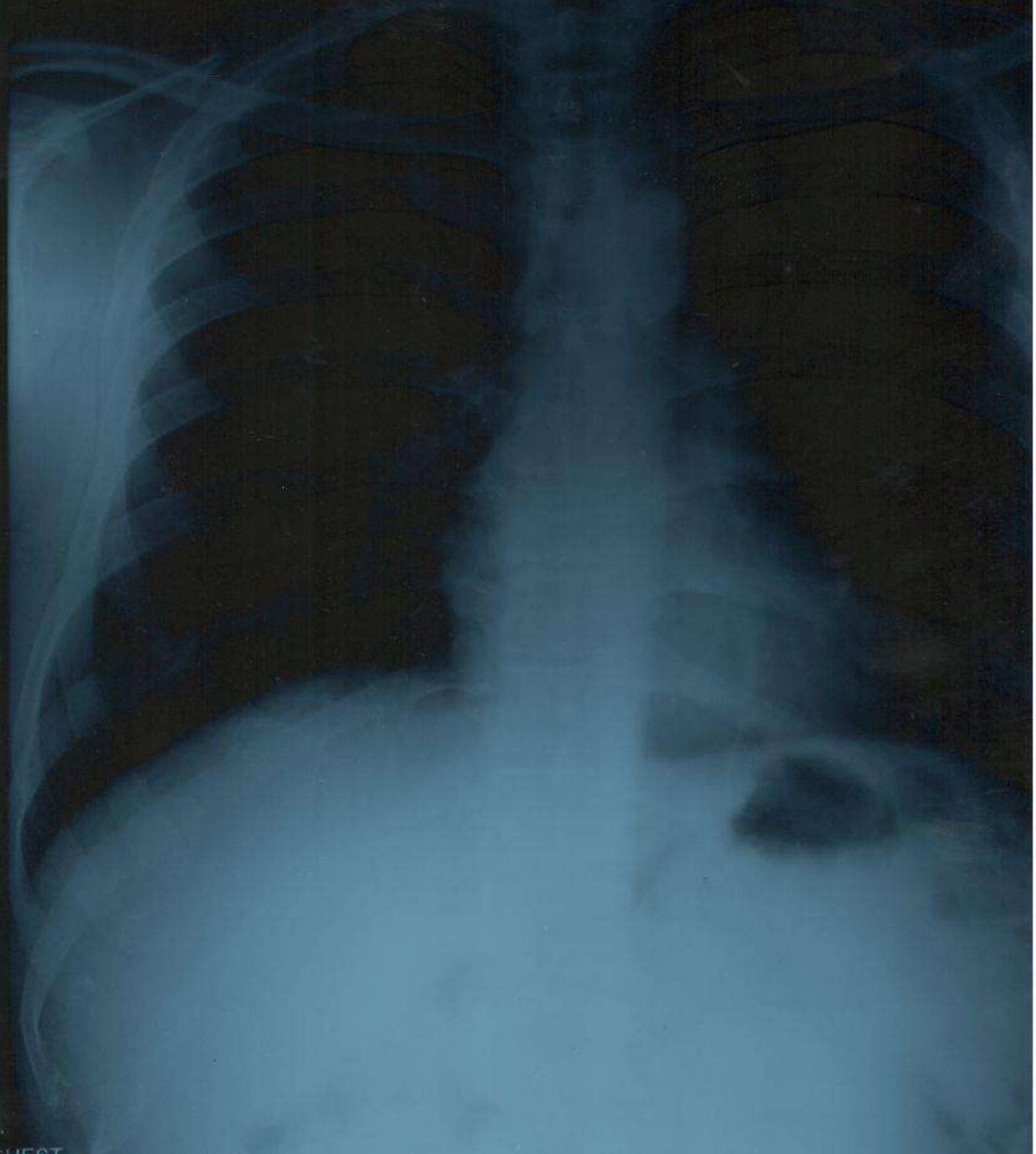
**CHEST - PA ERECT VIEW**

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg.No.WB MC 53151

JITENDRA KUMAR 36.  
Sex: Male  
DOB:  
ID: BS4



CHEST  
PA



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Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

## NABL Accredited Laboratory

ID NO. : BSI-50/012025/00003  
NAME : **Mr. Sanatan Singh**  
AGE / SEX : 39 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



BSI-50/012025/00003

### REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b><u>CBC (Complete Blood Count)</u></b>			
Haemoglobin (Hb%)	14.0	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b><u>TOTAL COUNT</u></b>			
Erythrocyte Count	3.54	million/cu.mm	4.5 - 6.5
Platelet Count	2,60,000	Per c.mm	150000 - 450000
<b><u>TOTAL COUNT</u></b>			
Leucocyte Count	7,200	/cu.mm	4000 - 10000
<b><u>DIFFERENTIAL COUNT</u></b>			
Neutrophil	63	%	51 - 75
Lymphocyte	33	%	21 - 35
Eosinophil	03	%	0 - 6
Monocyte	01	%	1 - 10
Basophil	00	%	0 - 1
PCV	39.8	%	35 - 45
MCV	112.3	fl	80 - 96
MCH	39.5	pg	27 - 30
MCHC	35.1	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	06	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35

Method : Wstergren Method

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMS) (Path)  
Consultant Pathologist  
REG No. - 44157

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist



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### Bravo Sponge Iron Pvt. Ltd.

Purulia - 723145

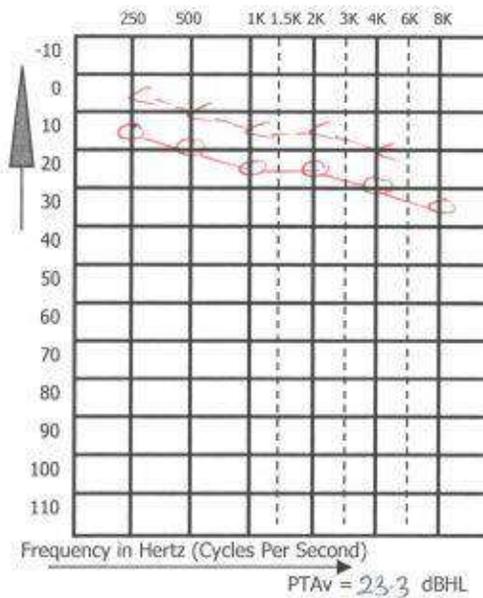
NO	NAME	AGE	ID
3	SANTAN SINGH	39	3243

### AUDIOGRAM

### CASE HISTORY

#### RIGHT EAR

Hearing Loss in decibels (dBHL)



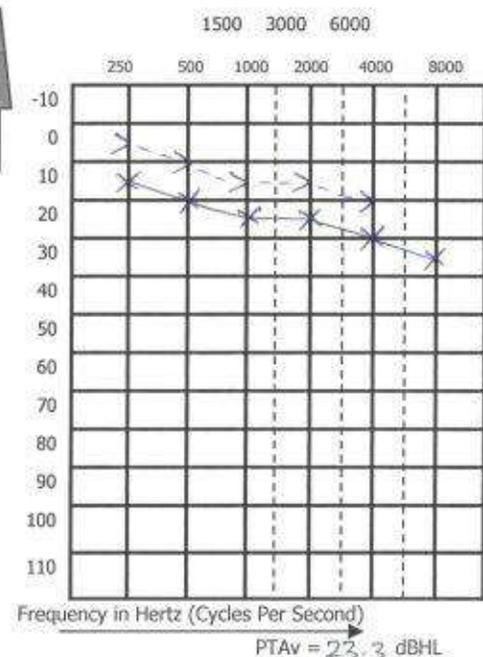
	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

### RINNE TEST

R +ve                      L +ve  
**AUDIOMETRIC WEBER TEST**  
 R    250 Hz              L  
      500 Hz  
      1000 Hz  
      2000 Hz  
      4000 Hz

#### LEFT EAR

Hearing Loss in decibels (dBHL)



SPEECH AUDIOMETRY RL		
SRT	R	L
SDS		
Roll Over		

SPECIAL TEST	
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K



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Brovo Sponge Iron PVT LTD.  
Purulia -723145

(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
3	SANTAN SINGH	39	3243

### EYE EXAMINATION

Vision Right Eye : 6/6

Vision Left Eye : 6/6  
N-6

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Dcyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

  
Eye Consultant  
Dr. Pranab Kumar Bose  
DMS (Cal), BSc (Cal), DCS (Cal)  
Optometrist, Eye & Vision Care  
No. - 9436

3

SPL

ID: 26024

Samatan Singh

Male

39 Years

cm

Singh

mmHg

kg

Diagnosis Information:

Sinus Rhythm

\*\*\*Normal ECG\*\*\*

HR : 94 bpm  
P : 102 ms  
PR : 182 ms  
QRS : 81 ms  
QT/QTc : 324/406 ms  
P/QRS/T : 69/55/54 °  
RV5/SV1 : 1.456/0.609 mV

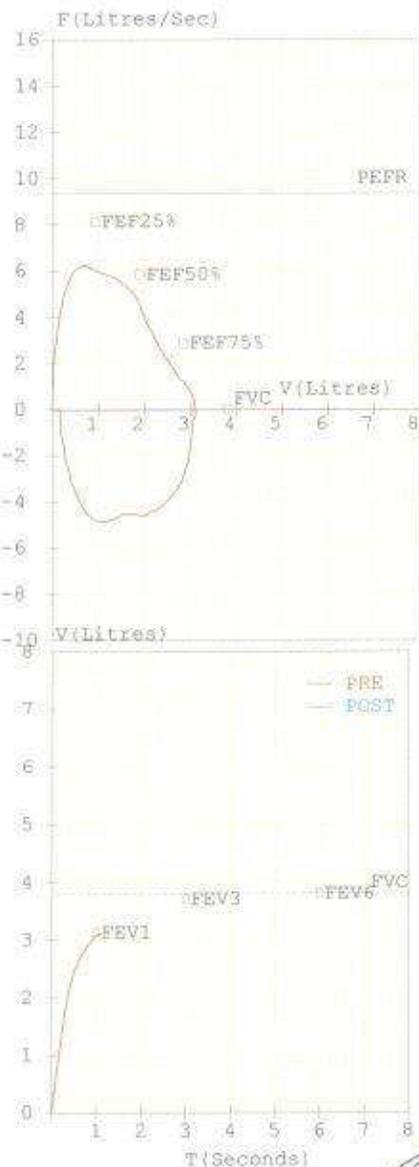
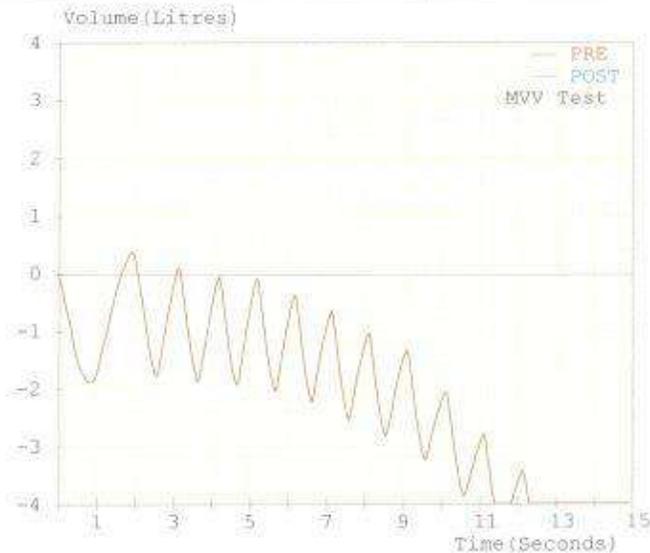
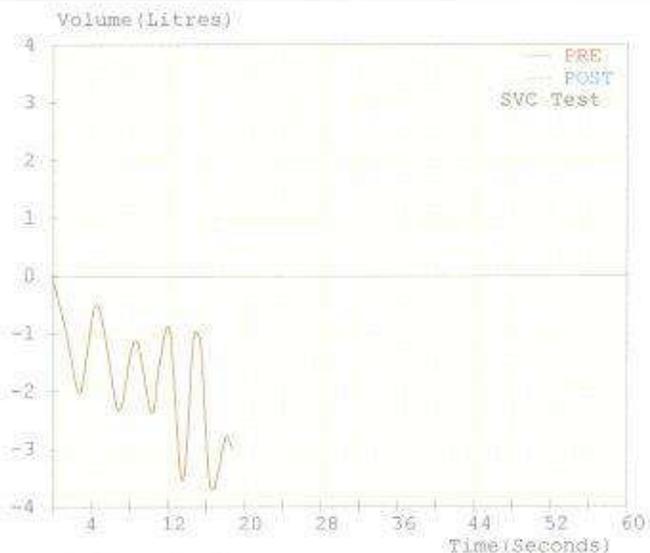
Report Confirmed by:

fasting ECG is WNL

Patient: SANATAN SINGH  
 Refd. By:  
 Pred. Eqns: RECORDERS  
 Date : 07-Jan-2025 10:56 AM

Age : 39 Yrs  
 Height : 177 Cms  
 Weight : 74 Kgs  
 ID : BS 3

Gender : Male  
 Smoker : No  
 Eth. Corr: 100  
 Temp :



**Spirometry Results**

Parameter	Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC (L)	03.81	03.11	082	---	---	---
FEV1 (L)	03.13	03.07	098	---	---	---
FEV1/FVC (%)	82.15	98.71	120	---	---	---
FEF25-75 (L/s)	04.12	04.67	113	---	---	---
PEFR (L/s)	09.38	06.16	066	---	---	---
FIVC (L)	---	02.97	---	---	---	---
FEV.5 (L)	---	02.44	---	---	---	---
FEV1 (L)	03.70	03.11	084	---	---	---
PIFR (L/s)	---	04.87	---	---	---	---
FEF75-85 (L/s)	---	02.04	---	---	---	---
FEF.2-1.2 (L/s)	07.32	05.73	078	---	---	---
PEF 25% (L/s)	08.14	06.10	075	---	---	---
PEF 50% (L/s)	05.83	05.32	091	---	---	---
PEF 75% (L/s)	02.86	02.69	094	---	---	---
FEV.5/FVC (%)	---	78.46	---	---	---	---
FEV3/FVC (%)	97.11	100.00	103	---	---	---
FET (Sec)	---	01.10	---	---	---	---
ExptTime (Sec)	---	00.10	---	---	---	---
Long Age (Yrs)	039	040	103	---	---	---
FEV6 (L)	03.81	---	---	---	---	---
FIF 25% (L/s)	---	03.93	---	---	---	---
FIF 50% (L/s)	---	04.52	---	---	---	---
FIF 75% (L/s)	---	04.85	---	---	---	---
SVC (L)	---	03.72	---	---	---	---
ERV (L)	01.46	00.15	010	---	---	---
IRV (L)	---	03.72	---	---	---	---
VE (L/min)	---	16.91	---	---	---	---
Rf (l/min)	---	18.18	---	---	---	---
Ti (sec)	---	01.98	---	---	---	---
Te (sec)	---	01.40	---	---	---	---
VT (L)	---	00.93	---	---	---	---
VT/Ti	---	00.49	---	---	---	---
Ti/Ttot	---	00.58	---	---	---	---
IC (L)	---	04.65	---	---	---	---
MVV (L/min)	142	098	069	---	---	---
MRF (l/min)	---	52.09	---	---	---	---
MVT (L)	---	01.88	---	---	---	---

**Pre Medication Report Indicates**

Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70  
 Spirometry within normal limits as (FEV1/FVC)%Pred >95 and FVC%Pred >80

*(Signature)*  
 Dr. Arjune Basu  
 Consultant Cardiologist  
 Reg. No. 10386



# TECHLAB

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### CHEST - PA ERECT VIEW

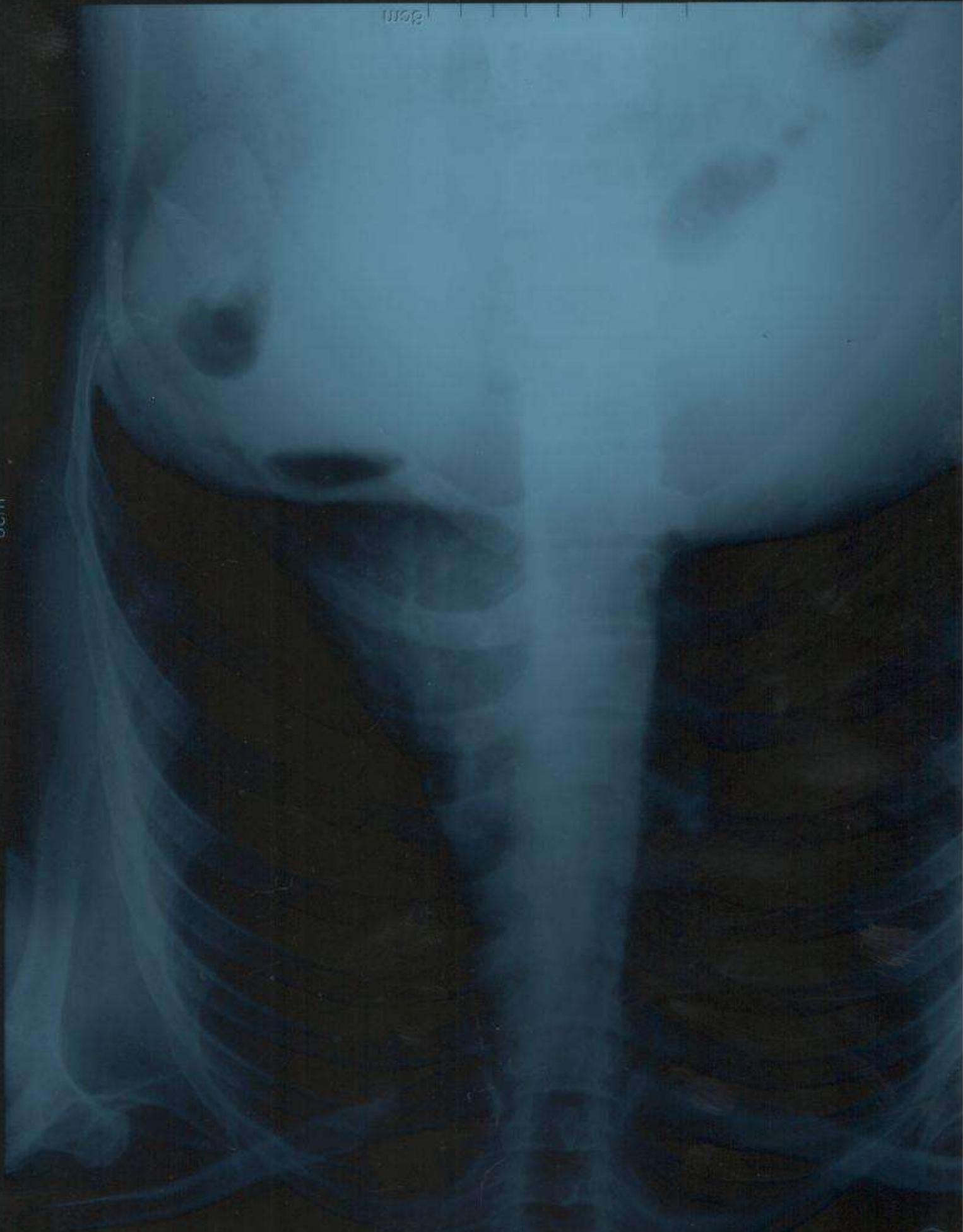
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Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg.No.WB MC 53151

8cm

8cm





# techlab

A Computerised Path Lab

Working Hours : Mon - Sat 8 a.m. - 8 p.m., Sun 2 p.m. to p.m.

**NABL Accredited Laboratory**

ID NO. : BSI-50/012025/00002  
NAME : **Mr. Srikanta Mondal**  
AGE / SEX : 48 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON: 07.01.2025  
REPORTED ON: 08.01.2025  
ASSOCIATE : BSI-50



BSI-50/012025/00002

## REPORT OF HAEMATOLOGICAL PROFILE

TEST NAME	RESULTS	UNITS	REFERENCE RANGE
<b>CBC (Complete Blood Count)</b>			
Haemoglobin (Hb%)	12.2	gm/dl	Female 11.5 - 16.5 Male 13.0 - 17.0 Child 11.0 - 15.5
<b>TOTAL COUNT</b>			
Erythrocyte Count	4.21	million/cu.mm	4.5 - 6.5
Platelet Count	1,98,000	Per c.mm	150000 - 450000
<b>TOTAL COUNT</b>			
Leucocyte Count	7,300	/cu.mm	4000 - 10000
<b>DIFFERENTIAL COUNT</b>			
Neutrophil	63	%	51 - 75
Lymphocyte	32	%	21 - 35
Eosinophil	03	%	0 - 6
Monocyte	02	%	1 - 10
Basophil	00	%	0 - 1
PCV	36.0	%	35 - 45
MCV	85.5	fl	80 - 96
MCH	29.1	pg	27 - 30
MCHC	34.0	%	30 - 35
ERYTHROCYTE SEDIMENTATION RATE(ESR)	07	mm/hour	Male<70years : upto 14 Male>70years : upto 30 Female <70years : upto 20 Female>70years : upto 35

Method : Westergren Method

-----End of Report-----

# Please correlate with the clinical conditions.

  
**Dr. Debasis Bhattacharya, MD (Path)**  
Asst. Professor (WBMS) (Path)  
Consultant Pathologist  
Consultant Pathologist  
Reg. No. - 48257

**Dr. Jaya Das, MD**  
Consultant Microbiologist

**Dr. Gautam Gupta, MD**  
Consultant Biochemist

**Dr. Sadhana Ganguli, MBBS, Ph. D.**  
Ex. Prof. Pathology (Haematology)  
IPGME & R and SSKM Hospital  
Consultant Pathologist



NABL Accredited Laboratory

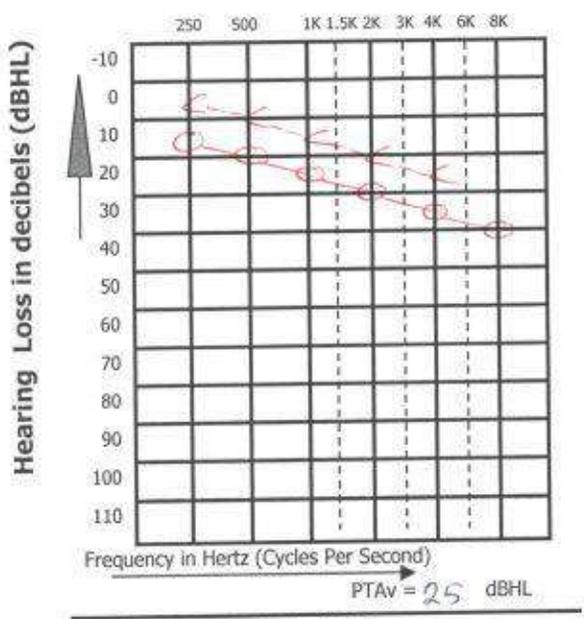
**Bravo Sponge Iron Pvt. Ltd.**  
 Purulia - 723145

NO	NAME	AGE	ID
2	SRIKANTA MONDAL	48	2590

### AUDIOGRAM

### CASE HISTORY

#### RIGHT EAR



	R	L
AIR (Unmasked)	O	X
AIR (Masked)	△	□
BONE (Unmasked)	<	>
BONE (Masked)	[	]
No Response	↙	↘

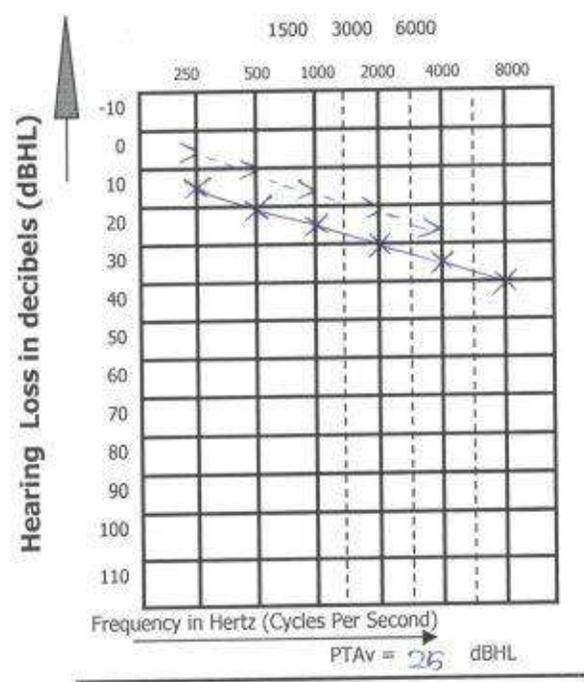
### RINNE TEST

R +ve                      L +ve

### AUDIOMETRIC WEBER TEST

R                      250 Hz                      L  
                           500 Hz  
                           1000 Hz  
                           2000 Hz  
                           4000 Hz

#### LEFT EAR



SPEECH AUDIOMETRY RL		
SRT	R	L
S D S		
Roll Over		

SPECIAL TEST	
R	L
Tone Decay	
S.I.S.I.	
S.A.L.	
A.B.L.B.	
Hypo Recruitment RE/LE	Hypo Recruitment RE/LE
No Recruitment RE/LE	No Recruitment RE/LE

B.K  
 B KUMAR



NABL Accredited Laboratory

**techlab**

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

Brovo Sponge Iron PVT LTD.  
Purulia -723145

(Test Conducted On 07/01/2025 & 08/01/2025)

No	NAME	AGE	Dept./ID/Ph.No.
2	SRIKANTA MONDAL	48	2590

### EYE EXAMINATION

Vision Right Eye : 6/12

Vision Left Eye : 6/12  
N-8

COLOUR VISION TEST- NO ABNORMALITY DETECTED

	Dsph	Deyl	Axis	VA
RE				
LE				
ADD RE				
ADD LE				

TYPE OF GLASSES -

Eye Consultant

Dr. Pranch Kumar Bose  
DMS (Cal), BSO (Cal), DOS (Cal)  
Otomel's Eye & Vision Care  
Reg. No. - 5449

Patient: SRIKANTA MONDAL

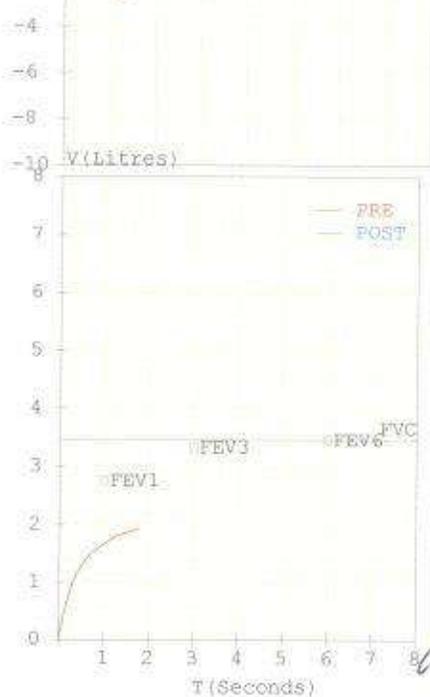
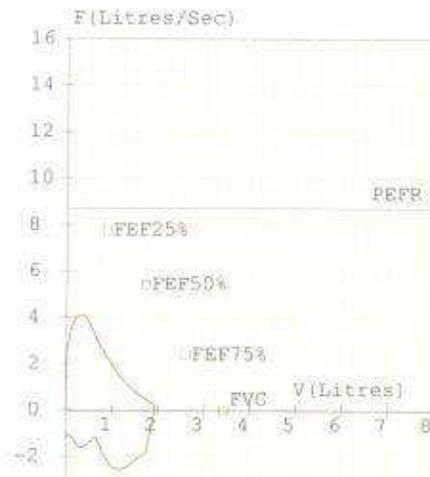
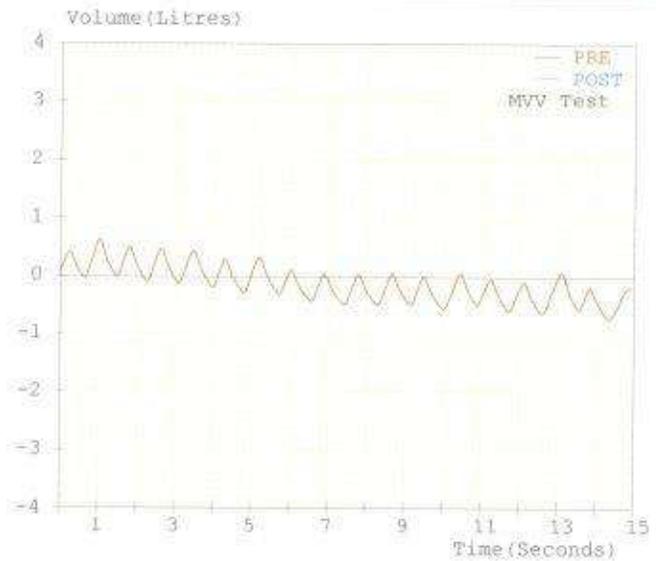
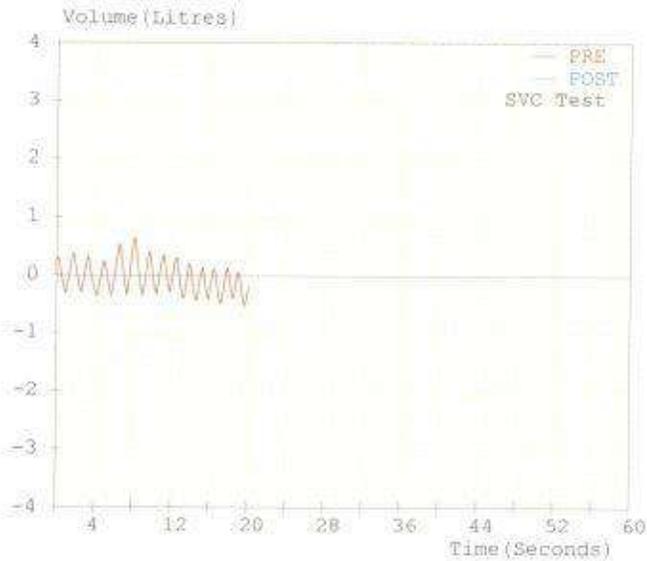
Refd.By:

Pred.Eqns: RECORDERS

Date : 07-Jan-2025 11:03 AM

Age : 48 Yrs  
 Height : 172 Cms  
 Weight : 112 Kgs  
 ID : BS 2

Gender : Male  
 Smoker : Yes  
 Eth. Corr: 100  
 Temp :



Spirometry Results							
Parameter		Pred	M.Pre	%Pred	M.Post	%Pred	%Imp
FVC	(L)	03.44	01.94	056	---	---	---
FEV1	(L)	02.74	01.67	061	---	---	---
FEV1/FVC	(%)	79.65	86.08	108	---	---	---
FEF25-75	(L/s)	03.62	01.73	048	---	---	---
PEFR	(L/s)	08.71	04.02	046	---	---	---
FIVC	(L)	---	02.00	---	---	---	---
FEV.5	(L)	---	01.28	---	---	---	---
FEV3	(L)	03.33	01.94	058	---	---	---
PIFR	(L/s)	---	02.52	---	---	---	---
FEF75-85	(L/s)	---	00.67	---	---	---	---
FEF.2-1.2	(L/s)	06.45	02.55	040	---	---	---
PEF 25%	(L/s)	07.79	03.80	049	---	---	---
PEF 50%	(L/s)	05.43	02.02	037	---	---	---
PEF 75%	(L/s)	02.42	00.87	036	---	---	---
FEV.5/FVC	(%)	---	65.98	---	---	---	---
FEV3/FVC	(%)	96.80	100.00	103	---	---	---
FET	(Sec)	---	01.84	---	---	---	---
ExpTime	(Sec)	---	00.07	---	---	---	---
Lung Age	(Yrs)	048	067	140	---	---	---
FEV6	(L)	03.44	---	---	---	---	---
FIF 25%	(L/s)	---	02.40	---	---	---	---
FIF 50%	(L/s)	---	02.08	---	---	---	---
FIF 75%	(L/s)	---	01.59	---	---	---	---
SVC	(L)	---	01.14	---	---	---	---
ERV	(L)	01.29	00.07	005	---	---	---
IRV	(L)	---	00.11	---	---	---	---
VE	(L/min)	---	32.62	---	---	---	---
RI	(l/min)	---	37.50	---	---	---	---
Ti	(sec)	---	00.80	---	---	---	---
Te	(sec)	---	00.80	---	---	---	---
VT	(L)	---	00.87	---	---	---	---
VT/TI		---	01.09	---	---	---	---
Ti/Ttot		---	00.50	---	---	---	---
IC	(L)	---	00.98	---	---	---	---
MVV	(L/min)	129	039	030	---	---	---
MRI	(l/min)	---	70.12	---	---	---	---
MVT	(L)	---	00.56	---	---	---	---

**Pre Medication Report Indicates**

Early Small Airway Obstruction as FEF 25-75 %Pred or PEFR %Pred < 70  
 Moderate Restriction as (FEV1/FVC)%Pred >95 and FVC%Pred <64

Dr. Arjun Basu  
 MD

Consultant Cardiologist  
 Reg. No. 10385

2  
D: 26026  
Meikanta Mendal  
Male / mmHg  
48 Years cm kg  
HR : 97 bpm  
P : 91 ms  
PR : 138 ms  
QRS : 88 ms  
QT/QTc : 334/425 ms  
P/QRS/T : 57/121/44 °  
RV5/SV1 : 0.473/0.151 mV

Resting ECG is WNL



# techlab

NABL Accredited Laboratory

13/1C, Balaram Ghosh Street, Kolkata-700004, Phone : (033) 2555 2055 / 1095  
Email : tlab\_2006@hotmail.com

ID NO. : BSI-50/012025/00002  
NAME : Mr. Srikanta Mondal  
AGE / SEX : 48 Years / Male  
REF. DOCTOR : Dr. Bravo Sponge Iron Pvt. Ltd.

RECEIVED ON : 07-01-2025  
REPORTED ON : 08-01-2025  
ASSOCIATE : BRAVO SPONGE  
IRON PVT.LTD.

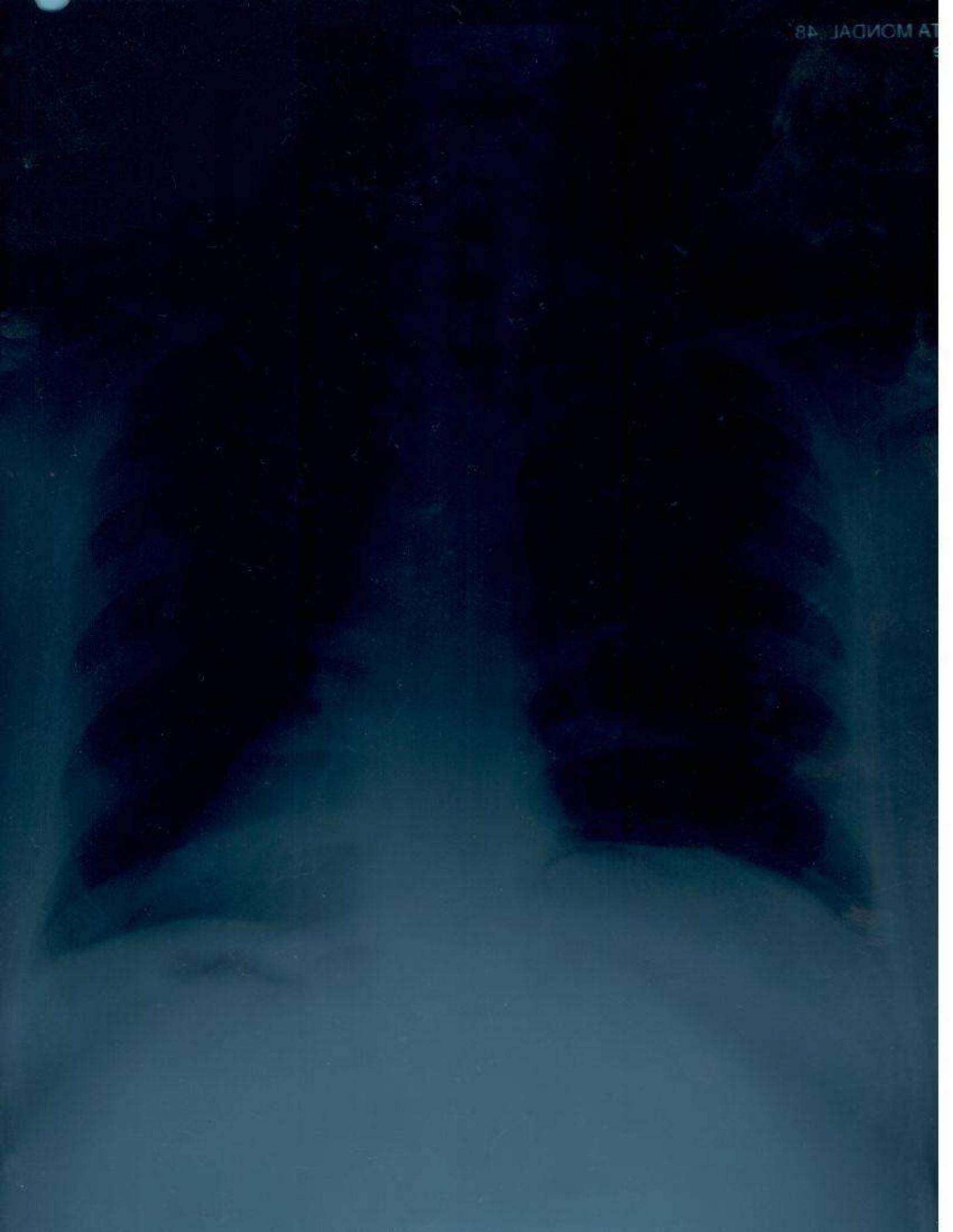


## CHEST - PA ERECT VIEW

Lung fields are clear.  
Both hila appears normal.  
Cardiac shadow appears normal.  
Domes are smoothly outlined.  
Costophrenic angles are clear.  
Bony thorax shows no obvious abnormality.  
Soft tissue of chest wall show no obvious abnormality.

**IMPRESSION : Study within normal limit.**

Dr Sarmishtha Guha  
DNB(Radiodiagnosis)  
Consultant Radiologist  
Reg No WB MC 53151



ANNEXURE- 4

**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.	252/2S(HW) 3675/2019
3.	Manifest Document No.	9212400128 dt.02-04-2024
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.	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.	
10.	Waste description	
11.	Total quantity No. of Containers	20.230 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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 4 2 0 2 4
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 4 2 0 2 4



Bravo Sponge Iron Pvt. Ltd.

Authorized Signatory

**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.	252/2S(HW) 3675/2019
3.	Manifest Document No.	3040013776 dt 08-06-2024
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.	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	24.410 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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
		08 06 2024
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
		08 06 2024

Bravo Sponge Iron Pvt. Ltd.

Authorized Signatory



Bravo Sponge Iron Pvt. Ltd.

Authorized Signatory

**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.	252/2S(HW) 3675/2019
3.	Manifest Document No.	3040014036 dt.22-06-2024
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.	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	24.640 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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 2 0 6 2 0 2 4
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 2 0 6 2 0 2 4

Bravo Sponge Iron Pvt. Ltd.  
*[Signature]*  
Authorized Signatory

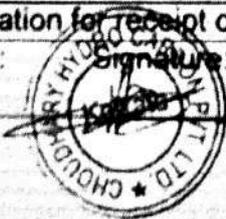


Bravo Sponge Iron Pvt. Ltd.  
*[Signature]*  
Authorized Signatory

**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	WBPCB/5132823/2024
3.	Manifest Document No	9212417451 dt.05-12-2024
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	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	24 030 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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 05 12 2024
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 05 12 2024

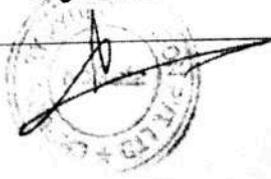


Bravo Sponge Iron Pvt. Ltd.  
*[Signature]*  
Authorized Signatory

**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.	WBPCB/5132823/2024
3.	Manifest Document No.	9212420536 dt.27-01-2025
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.	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	23.340 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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 27 01 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 27 01 2025



Bravo Sponge Iron Pvt. Ltd.  
*[Signature]*  
Authorized Signatory

**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.	WBPCB/5132823/2024
3.	Manifest Document No.	9212424007 dt.24-03-2025
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- 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	24.310 MT ONE TANKER
12.	Physical form	SEMI LIQUID
13.	Special handling instructions and additional information	Use PPEs
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 4 0 3 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 4 0 3 2 0 2 5



Bravo Sponge Iron Pvt. Ltd.  
*[Signature]*  
Authorized Signatory

ANNEXURE- 5

## PHOTOGRAPHS OF RCC ROAD







ANNEXURE- 6

# GREEN BELT DEVELOPMENT









ANNEXURE- 7



# ENVIROCHECK

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/IV	Report No.	: ENV/27/Feb./TR(A)/IV/24-25

### 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	: Kiln No.1 - 100 TPD & Kiln No.2 - 95 TPD	Height of sampling port (mtr.) (from G.L.)	: 14.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 5.12 MT/hr.		
Pollution Control Device	: E.S.P with W.H.R.B		

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 492.67
2.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 10.4
3.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
4.	a) Concentration of Particulate Matter (at 10.4% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 32.27
	b) Concentration of Particulate Matter (at 12% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	(Vol.11.07) : 2017	: 37.23

Remarks : Result relates only to the sample tested.  
 : During monitoring only Kiln No.1 was running.

Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
 Dy. Technical Manager, Chemical

Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJAY PAUL  
 Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 Ph. 25497490  
 Laboratory : 189, 190, 192, & 51, Rastraguru Avenue, Kolkata -700028  
 E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in  
 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Port Blair ■ Noida



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/II	Report No.	: ENV/27/Feb./TR(A)/II/24-25

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (1 x 350 TPD)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 45.0
Materials of Construction	: RCC	Stack I.D. at sampling point (mtr.)	: 2.0
Capacity	: 350 TPD	Height of sampling port (mtr.) (from G.L.)	: 31.39
Emission Due to	: Combustion of Coal & 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.R.B		

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 450.78
2.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 11.0
3.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
4.	a) Concentration of Particulate Matter (at 11% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 22.38
	b) Concentration of Particulate Matter (at 12% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	(Vol.11.07) : 2017	: 24.41

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL  
Quality Manager



# 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 Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/VII	Report No.	: ENV/27/Feb./TR(A)/VII/24-25

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fe-Ore Pellet Formation Stack (No.1)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 50.0
Materials of Construction	: RCC	Stack I.D. at sampling point (mtr.)	: 3.0
Capacity	: 2500 MT/Day	Height of sampling port (mtr.) (from G.L.)	: --
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 MT/hr. & PCI Coal - 2.5 MT/hr.		
Pollution Control Device	: E.S.P		

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 375.65
2.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 8.8
3.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
4.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 28.54

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

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# ENVIROCHECK

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



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/III	Report No.	: ENV/27/Feb./TR(A)/III/24-25

### 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.)	: 1.80
Capacity	: 100 TPD (each kiln)	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Combustion of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 4.5 MT/hr.		
Pollution Control Device	: E.S.P with W.H.R.B		

### B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) 1985 RA 2003	: 460.80
2.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 1992 RA 2003	: 10.6
3.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
4.	a) Concentration of Particulate Matter (at 10.6% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11	: 26.13
	b) Concentration of Particulate Matter (at 12% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	(Vol.11.07) : 2017	: 29.58

Remarks : During monitoring only Rotary Kiln No. 4 was running.  
 : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
 Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL  
 Quality Manager

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# ENVIROCHECK

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



TC-6014

## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/V	Report No.	: ENV/27/Feb./TR(A)/V/24-25

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Cooler Discharge of Kiln 1,2,3,4		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 26.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.5
Capacity	: --	Height of sampling port (mtr.) (from G.L.)	: 10.0
Emission Due to	: During Process		
Fuel Used	: Nil	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: N.A.		
Pollution Control Device	: Bag Filter		

### B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	32.63

Remarks : Result relates only to the sample tested.

Reviewed By :

*Indrani Bhattacharya*

INDRANI BHATTACHARYA  
 Dy. Technical Manager, Chemical

Authorised Signatory :

*Dr. Ajoy Paul*

Dr. AJOY PAUL  
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## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/I	Report No.	: ENV/27/Feb./TR(A)/1/24-25

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 45.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 2.20
Capacity	: Running - 20 TPH	Height of sampling port (mtr.) (from G.L.)	: 16.0
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.	a) Concentration of SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 2) : 2019	: 83.12
	b) Concentration of SO <sub>2</sub> (at 6% O <sub>2</sub> )	mg/Nm <sup>3</sup>		: 98.94
2.	a) Concentration of NO <sub>x</sub>	mg/Nm <sup>3</sup>	IS 11255 (Part 7) : 2017 / ASTM D 1608-98,	: 63.91
	b) Concentration of NO <sub>x</sub> (at 6% O <sub>2</sub> )	mg/Nm <sup>3</sup>	Sec. 11 (Vol. 11.07) : 2017	: 76.07
3.	Concentration of CO <sub>2</sub>	% (v/v)	IS 13270 : 2019	: 10.4
4.	Concentration of O <sub>2</sub>	% (v/v)	EPA Method 3 : 2017	: 8.4
5.	Concentration of CO	%(v/v)	IS 13270 : 2019	: <1.0
6.	a) Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D	: 22.28
	b) Concentration of Particulate Matter (at 6% CO <sub>2</sub> )	mg/Nm <sup>3</sup>	3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 26.52

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

Authorised Signatory :

Dr. AJAY PAUL  
Quality Manager



# ENVIROCHECK

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



## TEST REPORT

FORMAT NO : ENV/FM/38

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 18.02.2025 - 19.02.2025		
		Date of Issue	: 21.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample Condition	: Sealed	Sample ID No.	: ENV/27/Feb./A/VI	Report No.	: ENV/27/Feb./TR(A)/VI/24-25

### A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hood Over Induction Furnace (attached with common stack)		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.6
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 0.6
Capacity	: 15 MT/Charging (each furnace)	Height of sampling port (mtr.) (from G.L.)	: 15.24
Emission Due to	: Melting of Sponge Iron, Pig Iron Scraps etc.		
Fuel Used	: Electricity Operated	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

### B. RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of Particulate Matter	mg/Nm <sup>3</sup>	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	28.46

Remarks : Result relates only to the sample tested.

Reviewed By :

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

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ANNEXURE- 8



**FORMAT NO. ENV/FM/40**

## TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 21.02.2025 - 26.02.2025		
		Date of Issue	: 28.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Outlet	Sample Condition	: Sealed	Sample ID No.	: ENV/24/Feb./W/M/II
Report No.	: ENV/24/Feb./TR(W)/II/24-25				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 <sup>rd</sup> Edition, 2017	-	7.13	5.5 - 9.0
2.	Total Suspended Solids	2540 D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	20.6	100.0
3.	Oil & Grease	5520 B/D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	3.68	10.0
4.	Chemical Oxygen Demand	5220 B/C/D APHA 23 <sup>rd</sup> Edition, 2017	mg/l	125.84	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 <sup>rd</sup> Edition, 2017	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 BHATTACHARYA  
Dy. Technical Manager, Chemical

**Authorised Signatory :**

Dr. AJOY PAUL  
Quality Manager

<End of Report>

ANNEXURE- 9



**FORMAT NO. ENV/FM/55**

## **TEST REPORT**

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 21.02.2025 - 28.02.2025		
		Date of Issue	: 01.03.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Tubewell of Mahuda Village	Sample Condition	: Sealed	Sample ID No.	: ENV/1285A/Feb./W/M(i)
Report No.	: ENV/1285A/Feb./TR(W)/M(i)/24-25				

PARAMETERS		METHOD	UNIT	RESULTS
1.	Colour	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	Hazen	1.0
2.	Odour	APHA 23 <sup>rd</sup> Ed., 2150 B : 2017	--	Odourless
3.	pH	APHA 23 <sup>rd</sup> Ed., 4500 - H+B : 2017	--	6.78
4.	Taste	APHA 23 <sup>rd</sup> Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23 <sup>rd</sup> Ed., 2130 B : 2047	NTU	1.50
6.	Total Dissolved Solids	APHA 23 <sup>rd</sup> Ed., 2540 B : 2017	mg./l	460.0
7.	Calcium	APHA 23 <sup>rd</sup> Ed., 3500 Ca-B : 2017	mg./l	25.10
8.	Chloride	APHA 23 <sup>rd</sup> Ed., 4500 Cl-B/D : 2017	mg./l	60.0
9.	Iron	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg./l	0.18
10.	Magnesium	APHA 23 <sup>rd</sup> Ed., 3500 Mg-B : 2017	mg./l	7.20
11.	Nitrate	APHA 23 <sup>rd</sup> Ed., NO <sub>3</sub> -E : 2017	mg./l	2.60
12.	Sulphate	APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E : 2017	mg./l	45.0
13.	Total Alkalinity	APHA 23 <sup>rd</sup> Ed., 2320 B : 2017	mg./l	120.0
14.	Total Hardness	APHA 23 <sup>rd</sup> Ed., 2340 C : 2017	mg./l	70.0
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16.	Chromium	APHA 23 <sup>rd</sup> Ed., 3111 Cr-B : 2017	mg./l	<0.02
17.	Boron	APHA 23 <sup>rd</sup> Ed., 4500 B-C : 2017	mg./l	<0.1

**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 BHATTACHARYA**  
Dy. Technical Manager, Chemical



**FORMAT NO. ENV/M/55**

## **TEST REPORT**

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 21.02.2025 - 28.02.2025		
		Date of Issue	: 01.03.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Tubewell of Rukni Village	Sample Condition	: Sealed	Sample ID No.	: ENV/1285A/Feb./W/M(ii)
Report No.	: ENV/1285A/Feb./TR(W)/M(ii)/24-25				

PARAMETERS		METHOD	UNIT	RESULTS
1.	Colour	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	Hazen	1.0
2.	Odour	APHA 23 <sup>rd</sup> Ed., 2150 B : 2017	--	Odourless
3.	pH	APHA 23 <sup>rd</sup> Ed., 4500 - H+B : 2017	--	6.86
4.	Taste	APHA 23 <sup>rd</sup> Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23 <sup>rd</sup> Ed., 2130 B : 2047	NTU	1.80
6.	Total Dissolved Solids	APHA 23 <sup>rd</sup> Ed., 2540 B : 2017	mg./l	480.0
7.	Calcium	APHA 23 <sup>rd</sup> Ed., 3500 Ca-B : 2017	mg./l	40.0
8.	Chloride	APHA 23 <sup>rd</sup> Ed., 4500 Cl-B/D : 2017	mg./l	60.0
9.	Iron	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg./l	0.82
10.	Magnesium	APHA 23 <sup>rd</sup> Ed., 3500 Mg-B : 2017	mg./l	7.60
11.	Nitrate	APHA 23 <sup>rd</sup> Ed., NO <sub>3</sub> -E : 2017	mg./l	5.40
12.	Sulphate	APHA 23 <sup>rd</sup> Ed., 4500 SO <sub>4</sub> -E : 2017	mg./l	70.0
13.	Total Alkalinity	APHA 23 <sup>rd</sup> Ed., 2320 B : 2017	mg./l	120.0
14.	Total Hardness	APHA 23 <sup>rd</sup> Ed., 2340 C : 2017	mg./l	112.50
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16.	Chromium	APHA 23 <sup>rd</sup> Ed., 3111 Cr-B : 2017	mg./l	<0.02
17.	Boron	APHA 23 <sup>rd</sup> Ed., 4500 B-C : 2017	mg./l	<0.1

**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 BHATTACHARYA**  
Dy. Technical Manager, Chemical

**<End of Report>**

**ANNEXURE-10**

**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/09/Feb/(TR)N/I/24-25

Sampling Locations :	Railway Siding Area (North Side)	Date of Study :	06/2/2025
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Day time L <sub>eq</sub>
6:00 AM to 7:00 AM	50.3	53.8	52.10	52.50
7:00 AM to 8:00 AM	51.2	54.4	53.28	
8:00 AM to 9:00 AM	52.0	55.9	53.92	
9:00 AM to 10:00 AM	50.6	54.4	52.90	
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	48.83	
6:00 PM to 7:00 PM	48.9	51.9	50.65	
7:00 PM to 8:00 PM	46.5	51.2	49.38	
8:00 PM to 9:00 PM	45.2	50.9	47.54	
9:00 PM to 10:00 PM	43.7	49.1	46.18	

Date of Study :	06/02/2025 To 07/02/2025	Night time :	10 PM to 6 AM
-----------------	--------------------------	--------------	---------------

Time(hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Night time L <sub>eq</sub>
10:00 PM to 11:00 PM	42.8	48.6	45.34	47.17
11:00 PM to 12:00 AM	41.5	46.4	43.94	
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	46.7	52.4	49.39	
5:00 AM to 6:00 AM	47.2	53.6	51.20	

L<sub>min</sub> : Minimum Noise level

L<sub>max</sub> :Maximum Noise level

L<sub>eq</sub> :Equivalent sound energy



Compiled by : (Signature)  
 Dr. Ajoy Paul

Envirocheck Seal  
 Date : 10/02/2025



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





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
Accredited by NABL (ISO/IEC 17025:2017)  
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## NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

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

### MONITORED BY :

ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : ENV/09/Feb/(TR)N/II/24-25

Sampling Locations :	Near Administrative Building (Eastern Side)	Date of Study :	06/02/2025
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Day time L <sub>eq</sub>
6:00 AM to 7:00 AM	50.3	53.8	52.10	54.59
7:00 AM to 8:00 AM	51.6	54.9	53.79	
8:00 AM to 9:00 AM	52.3	55.6	54.38	
9:00 AM to 10:00 AM	53.8	56.7	55.18	
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	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	45.1	54.7	50.26	
8:00 PM to 9:00 PM	44.7	53.8	50.82	
9:00 PM to 10:00 PM	43.6	52.2	49.61	

Date of Study :	06/02/2025 To 07/02/2025	Night time :	10 PM to 6 AM
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Time(hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Night time L <sub>eq</sub>
10:00 PM to 11:00 PM	42.0	46.5	44.52	45.60
11:00 PM to 12:00 AM	42.8	46.2	44.50	
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	47.7	46.20	
5:00 AM to 6:00 AM	47.4	51.3	49.52	

L<sub>min</sub> : Minimum Noise level

L<sub>max</sub> : Maximum Noise level

L<sub>eq</sub> : Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 10/02/2025

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

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## NOISE MONITORING REPORT

**Bravo Sponge Iron Pvt. Ltd.**

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

**MONITORED BY :**

ENVIROCHECK  
189, Rastraguru Avenue,  
Calcutta - 700 028

Report No : ENV/09/Feb/(TR)N/III/24-25

Sampling Locations :	Mahuda Village (South Side)	Date of Study :	06/2/2025
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Day time L <sub>eq</sub>
6:00 AM to 7:00 AM	50.2	53.9	52.12	51.69
7:00 AM to 8:00 AM	51.6	54.0	52.85	
8:00 AM to 9:00 AM	52.8	54.6	53.62	
9:00 AM to 10:00 AM	53.6	55.9	54.29	
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	43.4	48.6	46.52	
8:00 PM to 9:00 PM	42.2	47.7	45.82	
9:00 PM to 10:00 PM	41.9	45.6	43.21	

Date of Study :	06/02/2025 To 07/02/2025	Night time :	10 PM to 6 AM
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Time(hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Night time L <sub>eq</sub>
10:00 PM to 11:00 PM	40.2	44.3	42.23	42.80
11:00 PM to 12:00 AM	40.0	43.9	41.52	
12:00 AM to 1:00 AM	39.9	42.5	41.62	
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	42.2	46.1	44.82	
5:00 AM to 6:00 AM	43.4	47.3	45.14	

L<sub>min</sub> : Minimum Noise level

L<sub>max</sub> :Maximum Noise level

L<sub>eq</sub> :Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 10/02/2025



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

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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/09/Feb/(TR)N/IV/24-25

Sampling Locations :	Near Main Gate (Western Side)	Date of Study :	06/02/2025
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Day time L <sub>eq</sub>
6:00 AM to 7:00 AM	52.3	56.8	54.10	54.64
7:00 AM to 8:00 AM	54.2	57.5	56.32	
8:00 AM to 9:00 AM	55.3	58.9	56.94	
9:00 AM to 10:00 AM	56.2	60.2	58.44	
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	51.15	
6:00 PM to 7:00 PM	42.8	45.4	44.29	
7:00 PM to 8:00 PM	41.6	45.0	43.16	
8:00 PM to 9:00 PM	41.0	44.3	42.86	
9:00 PM to 10:00 PM	40.9	43.9	41.94	

Date of Study :	06/02/2025 To 07/02/2025	Night time :	10 PM to 6 AM
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Time (hrs.)	L <sub>min</sub>	L <sub>max</sub>	L <sub>eq</sub>	Night time L <sub>eq</sub>
10:00 PM to 11:00 PM	40.4	43.0	41.98	51.36
11:00 PM to 12:00 AM	40.1	43.9	42.40	
12:00 AM to 1:00 AM	39.0	42.5	41.28	
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	52.9	51.98	
4:00 AM to 5:00 AM	53.6	55.4	54.82	
5:00 AM to 6:00 AM	54.2	57.9	56.62	

L<sub>min</sub> : Minimum Noise level

L<sub>eq</sub> :Equivalent sound energy

Compiled by : (Signature)  
Dr. Ajoy Paul

Envirocheck Seal  
Date : 10/02/2025



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  
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## ANNEXURE-11



# ENVIROCHECK

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FORMAT NO. : ENV/FM/53

## 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/09/Feb/(TR)N/1/24-25
8.	Date of Study	:	06/02/2025
9.	Reporting Date	:	10/02/2025
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 - 10:20A.M

#### DAY TIME

#### 1. Location : Pellet Plant Area

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	69.8	72.3	71.23	East Side
02.	dB(A)	63.1	71.9	69.43	West Side
03.	dB(A)	65.9	70.6	68.86	North Side
04.	dB(A)	66.2	71.4	69.54	South Side
Average dB(A) Leq				69.76	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager





# ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB  
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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001 : 2018



FORMAT NO. : ENV/FM/53

## 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/09/Feb/(TR)N/II/24-25
8.	Date of Study	:	06/02/2025
9.	Reporting Date	:	10/02/2025
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)	68.8	72.8	71.25	East Side
02.	dB(A)	70.9	74.6	73.13	West Side
03.	dB(A)	72.2	75.3	74.02	North Side
04.	dB(A)	71.3	76.8	74.87	South Side
Average dB(A) Leq				73.31	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager





# ENVIROCHECK

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



FORMAT NO. : ENV/FM/53

## 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/09/Feb/(TR)N/III/24-25
8.	Date of Study	: 06/02/2025
9.	Reporting Date	: 10/02/2025
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)	66.8	71.6	69.83	East Side
02.	dB(A)	71.8	75.2	73.82	West Side
03.	dB(A)	68.9	74.3	72.39	North Side
04.	dB(A)	71.2	75.9	74.16	South Side
Average dB(A) Leq				72.55	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager





# ENVIROCHECK

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



FORMAT NO. : ENV/FM/53

## 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/09/Feb/(TR)N/IV/24-25
8.	Date of Study	:	06/02/2025
9.	Reporting Date	:	10/02/2025
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 - 10:20A.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)	65.8	72.4	70.25	East Side
02.	dB(A)	71.1	75.3	73.69	West Side
03.	dB(A)	71.5	80.1	77.65	North Side
04.	dB(A)	71.2	74.9	73.43	South Side
Average dB(A) Leq				73.75	

>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)  
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FORMAT NO. : ENV/FM/53

## 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/09/Feb/(TR)N/V/24-25
8.	Date of Study	:	06/02/2025
9.	Reporting Date	:	10/02/2025
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 - 10:20A.M

#### DAY TIME

5. Location : SMS Area					
Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	66.1	75.8	73.23	East Side
02.	dB(A)	65.2	74.6	72.06	West Side
03.	dB(A)	62.1	71.9	69.32	North Side
04.	dB(A)	64.2	71.5	69.23	South Side
Average dB(A) Leq				70.96	

>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/FM/53

## 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/09/Feb/(TR)N/VI/24-25
8.	Date of Study	:	06/02/2025
9.	Reporting Date	:	10/02/2025
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 - 10:20A.M

#### DAY TIME

#### 6. Location : AFBC Boiler Area

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	68.1	72.6	70.91	East Side
02.	dB(A)	67.9	74.1	72.02	West Side
03.	dB(A)	73.8	75.6	74.79	North Side
04.	dB(A)	75.1	78.3	76.99	South Side
Average dB(A) Leq				73.67	

>End of Report<

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager



**ANNEXURE-12**



MANUFACTURERS OF HIGH QUALITY REFRACTORIES

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

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

Date : 01.04.16.....

## AGREEMENT

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

And

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

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

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

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

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

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

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

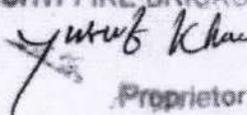
Signed and Delivered by the above

Signed and Delivered by the above

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

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

DRISHTI FIRE BRICKS

  
Proprietor



पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

E 505045

### AN AGREEMENT BETWEEN PURCHASER AND SUPPLIER

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

BETWEEN

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

AND

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

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

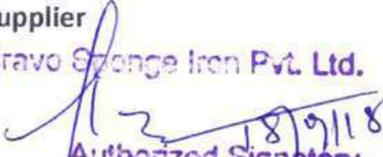
And whereas The SUPPLIER expresses their desire to enter into an agreement with the PURCHASER for utilization its fly ash in brick manufacturing.

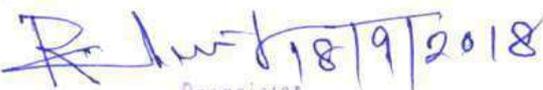
NOW THIS DEED OF AGREEMENT WITNESSES THE TERMS AND CONDITIONS AS FOLLOWS:

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

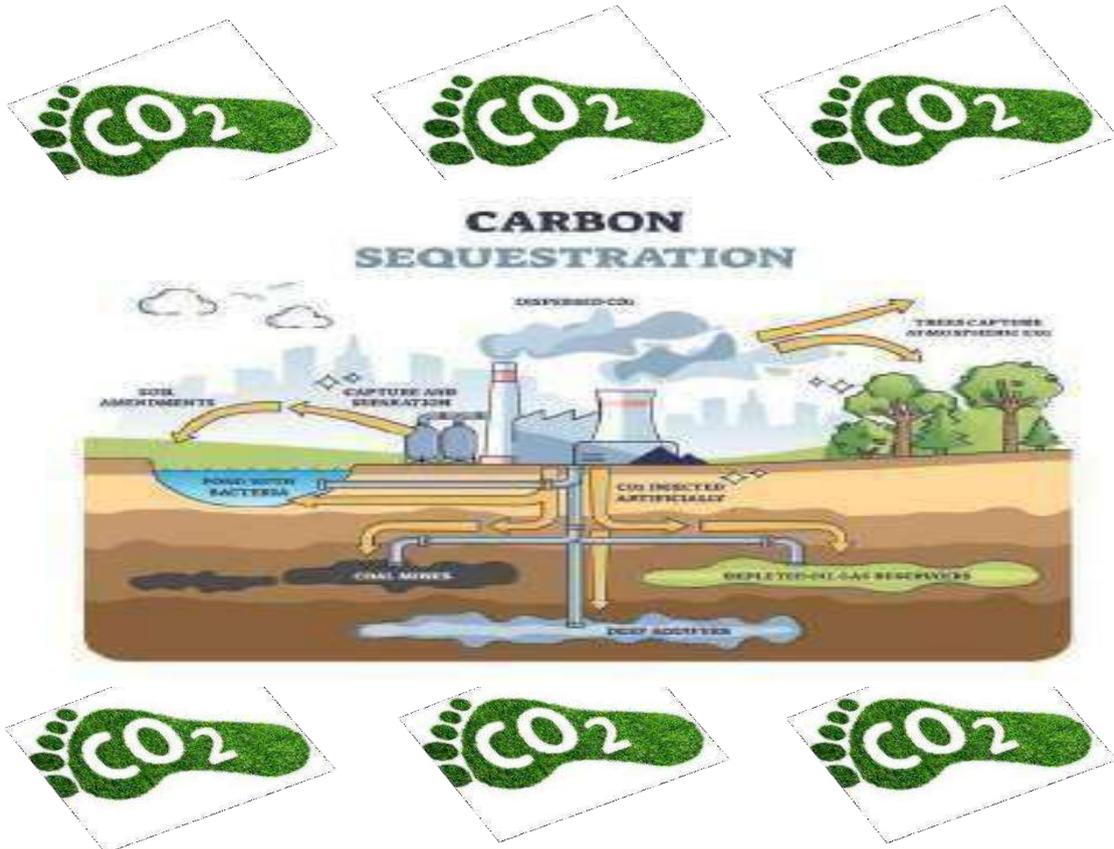
Signed on the 18<sup>TH</sup> day of SEPTEMBER 2018 for and on behalf of the Supplier and Purchaser as follows:

Supplier  
Bravo Sponge Iron Pvt. Ltd.  
  
1.....  
Authorized Signatory

PURCHASER  
DIAMOND FLY ASH BRICKS  
  
2.....  
Proprietor

**ANNEXURE-13**

# Bravo Sponge Iron Pvt. Ltd.



## GHG STUDY (CARBON FOOTPRINT) BRAVO SPONGE IRON PVT.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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> emissions from the operation of the DRI units.

**Table 01: CO<sub>2</sub> e Emission from Sponge iron plant**

Unit	Production (TPA)	Emission Factor (ton CO <sub>2</sub> /Ton of steel)	CO <sub>2</sub> e Emissions of the plant (TPA)
DRI (3x100 TPD,1x 95 TPD & 1x350 TPD)	251030	0.7	175721.00

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

### **2. Induction Furnace:**

The Following table shows the CO<sub>2</sub> emissions from the operation of 2x15 T Induction furnace.

**Table 02: CO<sub>2</sub> 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)	CO <sub>2</sub> e Emissions of the plant (TPA)
SMS	Pig Iron	9129.54	0.04	365.18	220.839	1578.18	5791.91
	Sponge Iron	70633.22	0.02	1412.66			
	Ferro Alloys	1058.56	0.02	21.17			
	Scrap	13218.45	0.04	528.74			
	<b>Total BILLET</b>		<b>73613</b>				

### **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	CO2e Emission of the plant (TPA)
2 X 0.85 MTPA	1467550	0.03	44026.5

### **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	CO2e Emissions of the plant (TPA)
Coal	9339.38	0.67	95%	21816.37
Dolochar	52272.59	0.25	95%	45562.10
<b>Total CO2e Emissions of the plant (T/Year)</b>				<b>67378.47</b>

Thus, the cumulative CO2e emitted from the existing project with sum of table 1-4 is **2,73,090.21 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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.

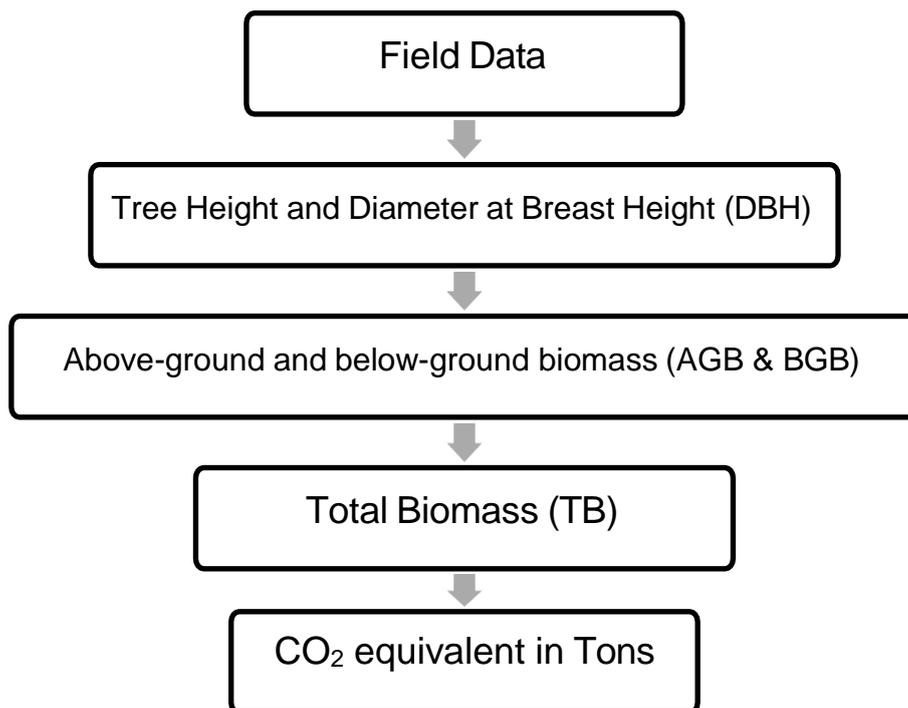
Carbon credit by recycling and reuse of iron scrap in induction furnaces of SMS, BSIPL shall reduce the carbon footprint (Ref: World Steel Association Fact Sheet on use of return & purchased scrap), and by using the green energy through WHRB BSIPL shall contribute in carbon sequestration with restricting the CO<sub>2</sub> 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 CO<sub>2</sub> 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.

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

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

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

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

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

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

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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 Specices	Local Name	Periphery (cm.)	Basal Area (M2)	Height (M)	Basal Volume (M3)	Density (Kg/M3)	AGB (Kg)	BGB (Kg)	TB (Kg)	TC (Kg)	CO2e (Kg)	No. Tree	Total CO2e (TPA)
1	Azadirachta indica	Neem	68	0.037	6.5	0.239	900	215.37	56.00	271.37	135.68	497.50	1200	597
2	Polyalthia longifoila	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	Albizzia lebbeck	Sreesh	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	Jarul	45	0.016	3	0.048	700	33.86	8.80	42.66	21.33	78.22	160	13
14	Millettia 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	Wodyetiabifurcata	Fox Tail Palm	45	0.016	2.8	0.045	540	24.38	6.34	30.72	15.36	56.32	65	4
17	Dysoxylumprocerum	Lamboo	68	0.037	4.5	0.166	600	99.4	25.84	125.24	62.62	229.61	125	29
18	Syzygiumcumini	Jamun	68	0.037	4.2	0.155	700	108.24	28.14	136.38	68.19	250.03	200	50
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
												<b>TOTAL</b>	16,900	<b>6,287</b>

## **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)**

<b>CARBON SEQUESTRATION</b>	
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 CO2e 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.

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**ANNEXURE-14**

## PRIMARY SCHOOL AT VILLAGE KASHBERIA



## ANNEXURE-15

## DETAILS OF CSR ACTIVITIES

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

 SHAKAMBHARI GROUP	<p><b>ELEGANT CENTRE FOR EMPOWERMENT &amp; LIVELIHOOD</b>                  (It's a guidance centre for forming women's self-help groups)</p> <p><b>WOMEN SEWING &amp; COMPUTER TRAINING CENTRE</b></p> <p>At: SARAD BHAKTIVEDANTA PUBLIC SCHOOL VILL-KASHIBERIA, PO- RUKNI, DIST- PURULIA</p> <p><b>ORGANISED BY ELEGANT CARE FOUNDATION</b>                  (CSR WING OF SHAKAMBHARIGROUP)</p> <p>Administrative support by: <b>BRAVO SPONGE IRON PVT.LTD.</b>                  MAHUDA, RUKNI, DIST-PURULIA</p>	
		



- ❖ 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:**



**ANNEXURE-16**





# Cancer screening, awareness held in North Garo Hills

**RESUBELPARA, MAY 6/-** /In a bid to sensitise the general populace on the importance of early detection of cancer, the State Cancer Society of Meghalaya held a one-day cancer screening and awareness programme on Monday at Resubelpara Community Health Centre. State Nodal Officer, Dr Anisha Mawlong, state cancer society of Meghalaya along with her team visited Resubelpara CHC where she actively emphasized the gathering on the importance of early cancer detection and its prevention. In her address, Dr Mawlong said that the mission was to sensitise the general population on cancer screening and its curability when detected early. The aim was to also detect cancer at its early stage thereby reducing the rate of cancer and mortality rate associated with the disease in the state. Meghalaya being ranked No.1 in cancer in the country, it is therefore



imperative that people should be made aware of early warning signs of cancer, do's and don'ts and seek immediate treatment from designated hospitals within the state, added Dr Mawlong. At present Shillong Civil Hospital, NEIGRIMS and Tura civil

hospital are catering to cancer care and services. Dr Anisha Mawlong added that in order to facilitate prevention and control of cancer in the region, district medical staffs, mid-level health provider (MLHP) and ANM would be equipped with capacity

building to fight against the rise of cancer. At the grassroots level, Village health council and religious leaders shall also be imparted knowledge on the early warning signs of cancer and early detection. At the present scenario, the state has been recording

cancer of the head and neck as the most prevalent type of cancer. Findings indicate that habitual use of betel nut and tobacco has been the rising cause of cancer related disease in the state. Dr Anisha Mawlong further urged the gathering to do away with the fear related to cancer and take the opportunity by coming forward and getting screened for the disease being provided by the government free of cost. Senior Medical & Health Officer, Resubelpara CHC, Dr Rezia K Sangma elaborated the importance of cancer screening programme and early signs and symptoms of cancer. Dr Rezia appraised the gathering that the hospital is equipped with basic testing facilities for screening of cancer and MHIS beneficiaries can avail the treatment free of cost. She also appealed the gathering to take advantage of the programme by supporting the cause to fight against cancer. (DIPR)

# 48 additional postal ballots of service voters arrive at Pakyong District

**PAKYONG, MAY 6/-/48** additional postal ballots from service voters for the general election 2024 were received from the Post Office in Pakyong today, bringing the total count to 282. The ballots were handed over to Sandesh Subba, SDM

Pakyong, by Post Office officials, Pakyong. As per the norms of ECI, all the Postal Ballots received, segregated by Assembly Constituency (AC), and date were then stored and sealed in the presence of election agents representing various

political parties at the strong room set up at the District Administrative Centre, Pakyong. To ensure transparency and compliance with regulations, the entire process was documented through videography. (IPR)

## Namchi district conducts DLOC meeting at District Administrative Centre

**NAMCHI, MAY 6/-/ A** Meeting on District Level Oversight Committee (DLOC) was convened at the District Administrative Centre, today. The meeting was chaired by Chairman DLOC cum DC Namchi Annapurna Alley. Others present include Sr SP Dr T N Gyatsho, ADC (HQ) Subash Ghimirey, ADC (Development) Namchi C P Rai, ADC (Development)

Ravangla Sunil Mothey along with the members of DLOC Namchi. During the meeting, DC directed the members of DLOC to monitor the proper surveillance system pertaining to the functioning and maintenance of CCTVs in the district. In addition, she also emphasised the members to ensure provisions for the safety of public in the district.

Likewise, ADC, HQ briefed the overview of DLOC, wherein he said that the committee is formed in compliance with the direction of Supreme Court of India to supervise, monitor and check the CCTVs and its equipments present in the Police Station of the district. Further, the meeting also discussed the number of CCTVs set up at various

locations and its status till date, which was followed by in depth discussions on the various projects led by Smart City Limited in the district. (IPR)

**SUPPLY, INSTALLATION AND TESTING OF ELECTRICAL ITEMS**

E-Tender are invited by the undersigned for the following work. **Tender No.:** NB245233, dttd: 03-05-2024. **Item Description:** Supply, Installation and testing of electrical items required for DEMU DPC 23006. **Quantity:** 01 Set. **PL Code (Group):** 639817440030. **Earnest Money:** ₹.11,70,000/-. **Date & time of closing of tenders at 14:30 Hrs. on 31-05-2024. NOTE -** For details please visit in website [www.ireps.gov.in](http://www.ireps.gov.in). **Dy. CMM/D, New Bongaigaon**  
**NORTHEAST FRONTIER RAILWAY**  
Serving Customers With A Smile

**केनरा बैंक Canara Bank** A Unit of India Banking

**VEHICLES FOR AUCTION**

**MIDNAPORE BRANCH**  
Holding No. 247/35, 1st Floor, Vidyasagar Road, Battala Chowk Dist - Paschim Medinipur, West Bengal, Pin - 721 101

Hypothecated Vehicle taken possession by Bank will be sold on "AS IS WHERE IS", "WHAT IS THERE IS AND WITHOUT ANY RECOURSE BASIS" in auction on 22.05.2024 (Wednesday) to be held between 3:00 PM to 5:00 PM.

Offers are invited from the intending Purchasers for Sale of the under mentioned asset on the following Terms & Conditions.

Sl. No.	A) Name of the Borrower B) Loan A/c. No. C) Branch Manager	Description of the Vehicle	A) Reserve Price B) EMD C) Bid Increment D) Parking
1.	A) Goutam Kumar Maity B) A/c. No. : 371460300094 C) Branch : Midnapore	Private Vehicle Regd No. : WB 34BK 4684 Make & Model : Ford Eco Sport 1.5 (D) Titanium MT Year of Make : 2018	A) Rs. 3,09,000/- B) Rs. 31,000/- C) Rs. 5,000/- D) VTR House, NH - 60, O. T. Road, Chowringhee, Kharagpur, Dist - Paschim Medinipur, West Bengal, Pin - 721 305.

**Date & Time of Physical Auction : 22.05.2024, from 3:00 PM to 5:00 PM. Last Date of EMD : 21.05.2024**

**Terms & Condition :**

- The Vehicle can be inspected from 08.05.2024 to 21.05.2024 between 10:00 AM to 4:00 PM.
- The Place of auction is Canara Bank, Midnapore Branch.
- The Assets will be sold only for a price above the reserve price, including all outstanding Service cost.
- Intending bidders have to submit a letter along with valid KYC documents and proof of remittance of EMD in Cash/ Demand Draft/ Bank Draft for sealed envelope by 21.05.2024.
- Bidder's reserve price will not be accepted.
- Vehicle will be handed over to the highest bidder on payment of balance amount along with Service Cost to the service centre, otherwise the EMD amount deposited shall be forfeited and no claim whatsoever will be entertained. Full Bid amount is to be paid by 31.05.2024.
- In case of single bidder the vehicle will be sold at minimum one incremental bid above the reserve price.
- Any Outstanding Service Cost of the vehicle will be borne by the Bidder.
- The unsuccessful bidder shall be entitled for the refund of the earnest money immediately after the auction is over.
- Bank reserves the right to modify, cancel or withdraw the auction any time without giving any further notice.
- Additional incidental expenses including the parking charges and statutory dues like road tax, insurance, parking charges, etc. are to be borne by the highest bidder.
- Registration of the vehicle is bidder's responsibility. The respective Branch will deliver the vehicle and related papers after full payment of the bid money.

**Date : 06.05.2024 / Place : Midnapore** Sd/- Authorised Officer / Canara Bank

**FEDERAL BANK The Federal Bank Ltd.**  
Jadavpur Branch, Near 8B bus stand, No 6, Ground Floor, Raja S. C. Mullick Road, Kolkata - 700032, Mob: 7001238858  
Email: [calls@federalbank.co.in](mailto:calls@federalbank.co.in), Web: [www.federalbank.co.in](http://www.federalbank.co.in)

**REQUIRED GOLD APPRAISER**

The Federal Bank, Jadavpur Branch, Near 8B bus stand, No 6, Ground Floor, Raja S. C. Mullick Road, Kolkata - 700032, seeks applications from eligible candidates to be engaged as Gold Appraiser. Interested candidates may submit their application in the prescribed form by visiting the Federal Bank, Jadavpur Branch subject to the terms & conditions as stated below:

- Candidates should be from Kolkata City (C.G.)
- Candidates should be traditional appraiser and well experienced in gold ornament making/appraising with good reputation.
- Candidate should possess a minimum educational qualification of 10th class/SSLC pass and shall not exceed 60 years as on 07/05/2024.
- Candidates should have a minimum experience of 2 years in the field of jewellery making/appraisal.
- Candidates shall be a citizen of India.

For further terms & conditions, please contact the Jadavpur branch of Federal Bank.

**SHAKAMBARIS IRON PRIVATE LTD.**

**NOTICE**

We, Bravo Sponge Iron Private Ltd., would like to inform the general public that we have obtained Environmental Clearance (EC) from Ministry of Environment, Forest and Climate Change, Govt. of India, vide F.No.- J-11011/758/2009-IA-II (ND-I), dated 02.05.2024, for the expansion of Bravo Sponge Iron Pvt.Ltd. 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 at Village - Mahuda, P.O.- Rukni, P.S.-Para, District : Purulia, West Bengal.

Copy of the environmental clearance letter has been uploaded on the official website of the Company i.e. <http://shakambarisiron.com/>

Place : Kolkata  
Dated : 04.05.24  
For Bravo Sponge Iron Private Ltd.

**SHRIRAM HOUSING FINANCE LIMITED**  
Reg.Off.: Office No.123, Angapanna Naicken Street, Chennai-600001  
Branch Office: 2nd Floor, 10, Wood Street, Kolkata - 700 016  
Website: [www.shriramhousing.in](http://www.shriramhousing.in)

**SYMBOLIC POSSESSION NOTICE**

Whereas, the undersigned being the authorised officer of Shriram Housing Finance Limited (SHFL) under the provisions of the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (said Act) and in exercise of powers conferred under Section 13(12) of the said Act read with Rule 3 of the Security Interest (Enforcement) Rules, 2002 (said Rules) issued demand notices to the Borrowers details of which are mentioned in the table below to repay the amount mentioned in the said demand notices.

The Borrowers having failed to repay the amount, notice is hereby given to the Borrowers and the public in general that the undersigned has taken **SYMBOLIC POSSESSION** of the property described herein below in exercise of powers conferred on him under Section 13(4) of the said Act read with rule 8 of the said Rules on the date mentioned hereunder.

The Borrower in particular and the public in general is hereby cautioned not to deal with the property and any dealing with the property will be subject to the charge of Shriram Housing Finance Ltd. for an amount as mentioned herein below with interest thereon.

The borrower's attention is invited to provisions of sub-section (B) of section 13 of the Act, in respect of time available, to redeem the secured assets.

Borrower's Name	Demand Notice
<b>1.MRS.MAHUYA SINGH</b> W/o Rakesh Singh AB-51/6, Sector- I, Salt Lake, Kolkata-700064 Also at: Alcove Gloria Flat No-5M, 5th Floor Tower 02, 403/1, Dakshindari Road, Kolkata-700048	Rs.80,08,150/- (Rupees Eighty Lakhs and Eight Thousand One Hundred and Fifty Only) as on 15.12.2022 under reference of Loan Account No. SLPHKLT0000153 with further interest at the contractual rate, within 60 days from the date of receipt of the said notice.
<b>2.MR.RAKESH SINGH</b> S/o Yogendra Narayan Singh AB-51/6, Sector- I, Salt Lake, Kolkata-700064	13(2) Notice Date. 19.12.2022 <b>Date of Symbolic Possession: 04.05.2024</b>

**Description of Mortgaged Property**

ALL THAT one residential unit being Flat No. 5M on the 5th Floor, having Super Built Up area 1523 Sq.Ft. of Tower 02 together with One Car Parking Space being no.68 measuring about 100 Sq.Ft on the Lower Basement Floor of the building known as Alcove Gloria together with undivided proportionate share of Land admeasuring 9 Bighas 13 Cottahs lying and situated at Premises No. 2 (Old), 403/1 (New), Dakshindari Road, Kolkata-700048, at Mouza- Kankuri Comprised in J.L. No. 28, Re.Sa. No. 2, Touzi No. 1298/2833, Old Khatian No. 70, Khatian Nos. 480, 481, 235, Zamindari Khatian No. 234, Dag Nos. 281, 282, District- 24 Parganas (North), PS- Lake Town, Ward No. 33, within the ambit of South Dum Dum Municipality. Boundaries : -North: Stair Case, South: Others Flat, East: Open Space, West: Lobby

Place: Kolkata  
Date : 04-05-2024  
Sd/- Authorised Officer  
Shriram Housing Finance Limited

**PHOENIX ARC PRIVATE LIMITED**  
CIN: U67190MH2007PTC166303  
Reg Office : Wallace Towers, 3rd Floor, 139/140/B/1, Crossing of Sahar Road and Western Express Highway, Ville Parle (E), Mumbai - 400057, Tel : 022- 68492450, Fax : 022- 67412313, Email: [info@phoenixarc.co.in](mailto:info@phoenixarc.co.in), Website: [www.phoenixarc.co.in](http://www.phoenixarc.co.in)

**POSSESSION NOTICE [RULE 8(1)]**

Whereas, the Hero Fincorp Limited (hereinafter referred as "Hero Fincorp") under the provisions of the Securitisation and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 (said Act) and in exercise of powers conferred under Section 13(2) of the said Act read with Rule 3 of the Security Interest (Enforcement) Rules, 2002 (said Rules) issued Demand Notice dated 17.02.2019 to Mrs. Sabita Industries (Borrower), Sujit Kumar Mondal (Borrower), Mr. Milan Karar (Guarantor), Mrs. Tanushree Karar (Guarantor) and Mr. Madhusudan Karar (Guarantor) (hereinafter referred to as the "Borrowers") to repay the amount mentioned in the notice being **Rs.1,46,87,763.88/- (Rupees One Crore Fourty Six Lakhs Eighty Seven Thousand Seven Hundred Sixty Three and Eighty Eighty Paise only)** as on 17.02.2019 and interest thereon.

The Borrower having failed to repay the amount, notice is hereby given to the Borrowers and the public in general that the undersigned being the Authorized Officer of Phoenix ARC Private Limited, acting in its capacity as Trustee of Phoenix Trust FY 22-21 has been handed over **Physical Possession** of the mortgaged property described herein below by the Seal Bailiff cum Court Commissioner in view of the order dated 20.04.2023 passed by the Hon'ble Chief Judicial Magistrate, Alipore under section 14 of the SARFAESI Act read with the Rules, on this 3rd May of the year 2024.

The Borrower in particular and the public in general is hereby cautioned not to deal with the property and any dealings with the property will be subject to the charge of Phoenix ARC Private Limited, acting in its capacity as Trustee of Phoenix Trust FY 22-21 for an amount of **Rs.1,46,87,763.88/- (Rupees One Crore Fourty Six Lakhs Eighty Seven Thousand Seven Hundred Sixty Three and Eighty Eighty Paise only)** as on 17.02.2019 and interest thereon.

(The Borrower/Guarantors attention is invited to provisions of sub-section (B) of Section 13 of the Act, in respect of time available, to redeem the secured assets.)

**DESCRIPTION OF SECURED ASSET**

**Property no. 1:** All that piece and parcel of Bastu land, measuring about 44 Decimals, along with a structure measuring about 340 Sq.Ft. with Cemented Flooring standing thereon (12 wide road on the North Side), situated in Mouza - Jagaddal, Police Station - Sonarpur, I.L.No.71, Touzi No.15, Re.Sa.to.232, R.S. Khatian No.4824, R. S. and I.R. Dag No.1149, under Rajpur- Sonarpur Municipality, Ward No.26, Holding No.181672, Chouhali, Jagaddal Road, District - South 24 Parganas. **BOUNDARIES:** North: 12 wide Road, South: Vacant land of Sujit Kumar Modal, East: 12 wide Road; West: Property of Tapan Banerjee

**Date: 03.05.2024**  
Place: Sonarpur, South 24 Parganas, West Bengal  
Sd/- Authorised Officer  
Phoenix ARC Private Limited  
(Trustee of Phoenix Trust FY 22-21)

**SMFG India Home Finance Company Ltd.**  
(Formerly Fullerton India Home Finance Co. Ltd.)  
Corporate Off. : 503 & 504, 5<sup>th</sup> Floor, G-Block, Inspire BKC, BKC Main Road, Bandra (E), Mumbai-400 051, MH, Regd. Off. : Megh Towers, Flr. 3, Old No. 307, New No. 165, Poonamallee High Road, Maduravoyal, Chennai-600 085, Tamil Nadu.

**SALE NOTICE FOR SALE OF IMMOVABLE PROPERTIES**

**E-AUCTION SALE NOTICE OF 30 DAYS FOR SALE OF IMMOVABLE ASSETS UNDER THE SECURITISATION AND RECONSTRUCTION OF FINANCIAL ASSETS AND ENFORCEMENT OF SECURITY INTEREST ACT, 2002 READ WITH PROVISION TO RULE 8(6) OF THE SECURITY INTEREST (ENFORCEMENT) RULES, 2002.** NOTICE is hereby given to the Public in General and in particular to the Borrower(s) and Guarantor(s) that the below listed immovable properties ("Secured Assets") mortgaged / charged to the Secured Creditor, the Possession of which has been taken by the Authorized Officer of SMFG India Home Finance Company Ltd. (Formerly Fullerton India Home Finance Co. Ltd.) (hereinafter referred to as SMHFC) ("Secured Creditor"), will be sold on "As is where is", "As is what is" and "Whatever there is" on the date and time mentioned herein below, for recovery of the dues mentioned herein below and further interest and other expenses thereon.

Sl. No.	Name of the Borrower(s) / Guarantor(s) LAN	Description of the Properties	Reserve Price (In ₹) Earnest Money Deposit (In ₹)	Date & Time of E-Auction	Date of EMD Submission
1.	LAN : 617039211319428 1. Uday Sankar Ghosh S/o Late Ranbir Ghosh 2. Lipika Ghosh, D/o Sukumar Adhikary 3. M/s. Lipika Saree Point	All That Plot of Land Measuring About 01 Cottah, 08 Chittaks, 19 Sq. Ft. More or Less Forming Part Of R. S. Dag No. 587/1546 Corresponding to L.R. Dag No. 650 Under R. S. Khatian No. 500 Corresponding To L. R. Khatian No. 747 At Present L. R. Khatian No. 2183 (As Per Porcha), J. L. No. 19, In Mouza : Digra Malkichhati Under P. S. Bhadreswar In The District : Hooghly- 712 136, Within The Limits of Dighati Gram Panchayet. The Aforesaid Land is -> <b>Buttet &amp; Bounded as Follows</b> :- <b>East</b> : By Property of Sri Biswanah Ghosh; <b>West</b> : By Property of Shyamal Kumar Halder; <b>North</b> : By 12 Ft. Wide Common Path; <b>South</b> : By Others Property.	5,00,000/-  50,000/-	10.06.2024 at 11.00 a.m. to 01.00 p.m.	07.06.2024

Details terms and conditions of the sale are as below and the details are also provided in our / Secured creditor's website at the following link / website address (<https://disposalhub.com> and <https://www.grihashakti.com/pdf/E-Auction.pdf>). The Intending Bidders can also contact : **Mr. Joydeep Sur** on his Mob. No. 9830398605, E-mail : [Joydeep.Sur@grihashakti.com](mailto:Joydeep.Sur@grihashakti.com) and **Mr. Sushil Patil**, on his Mob. No. 8828889998, E-mail : [sushil.patil1@grihashakti.com](mailto:sushil.patil1@grihashakti.com).

Place : Hooghly, W. B. Date : 07.05.2024  
Authorized Officer, SMFG INDIA HOME FINANCE COMPANY LIMITED (Formerly Fullerton India Home Finance Co. Ltd.)

**पंजाब नैशनल बैंक Punjab National Bank**  
(भारत सरकार का उपक्रम) (Govt. Of India Undertaking)

Head Office: Plot No 4, Sector -10 Dwarka, New Delhi -110075  
SASTRA Division, Kolkata West Circle, 4th Floor, 11, Hemanta Basu Sarani, Kolkata-700 001.

**E-Auction Sale Notice**

**E-AUCTION SALE NOTICE FOR SALE OF IMMOVABLE PROPERTIES**  
**LAST DATE & TIME FOR SUBMISSION OF EMD AND DOCUMENTS (Hard Copy & ONLINE) :-**

Property at Lot (mentioned below)	LAST DATE OF BID SUBMISSION Online	Time Up to
Sl. No. 1	10.06.2024	Upto 5.00 PM

**E-Auction Sale Notice for Sale of Immovable Assets under the Securitization and Reconstruction of Financial Assets and Enforcement of Security Interest Act, 2002 read with provision to Rule 8 (6) of the Security Interest (Enforcement) Rules, 2002.** Notice is hereby given to the public in general and in particular to the Borrower (s) and Guarantor (s) that the below described immovable property mortgaged/charged to the Secured Creditor, the constructive/physical/ symbolic possession of which has been taken by the Authorized Officer of the Bank/ Secured Creditor, will be sold on "As is where is", "As is what is", and "Whatever there is" on the date as mentioned in the table herein below, for recovery of its dues due to the Bank/ Secured Creditor from the respective borrower (s) and guarantor (s). The reserve price and the earnest money deposit will be as mentioned in the table below against the respective properties.

The sale will be done by the undersigned through e-auction platform provided at the Web Portal (<https://www.ibapi.in>). The General Public is invited to bid either personally or by duly authorized agent.

Lot No.	Name of the Branch Name of the Account	Description of the Immovable Properties Mortgaged / Owner's Name	A) Dt. of Demand Notice B) Outstanding Amount C) Possession Date	A) Reserve Price (Rs. in lacs) B) EMD C) Bid Increase Amount	Date/ Time of E-Auction
1.	New Market (010720) Ahmed Traders  (Prop- Mr. Irphan Ahmed) Guarantor- Mr. Irphan Ahmed Mrs Nilufar Ahmed	All that piece and parcel of the land with shed/Building thereon measuring an area of 04 Cottahs 09 Chittaks of land of RS & LR Dag No. 67793 under RS Khatian No 366 and 05 Chittaks of Land of RS & LR Dag No. 67, under RS Khatian No. 372 Total 04 Cottahs 14 Chittaks more or less in the scheme plot No. 04, which is recorded under LR Khatian No. 1858 situated at Mouza- Finga, J.L No. 04, Re Su no. 107, under PS- Nimta, under the limits of North Dum Dum Municipality, Ward No-03, Dist- 24 Pgs North, Deed No. 115260404/2017. Property stands in the name of 1. Mr Irphan Ahmed, S/o Lt Shafi Ahmed & 2. Mrs Nilufar Ahmed, W/O Irphan Ahmed  (UNDER SYMBOLIC POSSESSION)	A) 13.11.2023 B) ₹ 36,55,258.71 along with interest thereon, all other expenses and other applicable charges. C) 06.02.2024	(A) ₹ 86.34 Lac (B) ₹ 8.64 lac (C) ₹ 0.10 lac	11.06.2024 FROM 11.30 AM TO 3.30 PM WITH 10 MINS EXTENSION (Authorized Officer Contact No. 933909115)

**TERMS AND CONDITIONS OF E-AUCTION SALE**

The sale shall be subject to the Terms & Conditions prescribed in the Security Interest (Enforcement) Rules, 2002 and to the following further conditions.

- The auction sale will be "online through e-auction" portal <http://www.mstcecommerce.com/>
- The intending Bidders/ Purchasers are requested to register on portal (<https://www.mstcauction.com>) using their mobile number and email-id. Further, they are requested to upload requisite KYC documents. Once the KYC documents are verified by e-auction service provider (may take 2 working days), the intending Bidders/Purchasers has to transfer the EMD amount using online mode in his Global EMD Wallet by 10.06.2024 (For Sl. No. 1) before the e-Auction Date and time in the portal. The registration, verification of KYC documents and transfer of EMD in wallet must be completed well in advance, before auction.
- Earnest Money Deposit (EMD) amount as mentioned above shall be paid online through 3 modes i.e. NEFT/ Cash/ Transfer (After generation of Challan from (<https://www.mstcecommerce.com>) in bidders Global EMD Wallet. NEFT transfer can be done from any Scheduled Commercial Bank, however for Cash/ Transfer the bidder has to visit Punjab National Bank Branch. Payment of EMD by any other mode such as Cheques will not be accepted. Bidders, not depositing the required EMD online, will not be allowed to participate in the e-auction. The Earnest Money Deposited shall not bear any interest.
- Platform (<https://www.mstcecommerce.com>) for e-auction will be provided by eAuction service provider M/S MSTC Limited having its Registered office at 225-C, A.J.C. Bose Road, Kolkata-700020 (contact Phone & Toll free Numbers 079- 41072412/ 4111 413 or 1800-1033-5342). The intending Bidders/Purchasers are required to participate in the e-Auction process at e-Auction Service Provider's website <https://www.mstcecommerce.com>. This Service Provider will also provide online demonstration/ training on e-Auction on the portal.
- The Sale Notice containing the General Terms and Conditions of Sale is available / published in the following website's webpage portal. i.<http://www.ibapi.in> ii.<http://www.mstcecommerce.com> iii.<http://www.pnbindia.in>
- The intending participants of e-auction may download free of cost, copies of the Sale Notice, Terms & Conditions of e-auction, Help Manual on operational part of e-Auction related to this e-Auction from eBPP-IBAPI portal (<https://www.ibapi.in>).
- The intending Bidders/Purchasers are requested to register on portal (<https://www.mstcauction.com>) using their mobile number and email-id. Further, they will upload the requisite KYC documents. Once the KYC documents are verified by e-auction service provider (may take 2 working days), the intending Bidders/Purchasers has to transfer the EMD amount using online mode in his Global EMD Wallet. Only after having sufficient EMD in his Wallet, the interest bidder will be able to bid on the date of e-auction.
- Bidder's Global Wallet should have sufficient balance (>=EMD amount) at the time of bidding.
- During the e-auction bidders will be allowed to offer higher bid in inter-se bidding over and above the last bid quoted and the minimum increase in the bid amount must be of ₹ 10,000.00 to the last higher bid of the bidders Ten minutes time will be allowed to bidders to quote successive higher bid and if no higher bid is offered by any bidder after the expiry of ten minutes to the last highest bid, the e-auction shall be closed.
- It is the responsibility of intending Bidder(s) to properly read the Sale Notice, Terms & conditions of e-auction, Help Manual on operational part of e-Auction and follow them strictly. In case of any difficulty or need of assistance before or during e-Auction process may contact authorized representative of our e-Auction Service Provider (<https://www.mstcecommerce.com/>). Details of which are available on the e-Auction portal.
- After finalization of e-Auction by the Authorized Officer, only successful bidder will be informed by our above referred service provider through SMS/ email. (On mobile no/ email address given by them/ registered with the service provider).
- The secured asset will not be sold below the reserve price. As per rules, the Bidding shall start from one notch higher than the Reserve Price.
- The successful bidder shall have to deposit 25% (twenty-five percent) of the bid amount, less EMD amount deposited, on the same day or not later than the next working day and the remaining amount shall be paid, within 15 days from the date of Confirmation of Sale by the Bank, in the form of Banker's Cheque/ Demand Draft issued by a Scheduled Commercial Bank drawn in favor of "The Authorized Officer, Punjab National Bank, A/c (Name of the A/C) Payable at KOLKATA. In case of failure to deposit the amount as above within the stipulated time, the amount deposited by successful bidder will be forfeited to the Bank and Authorized Officer shall have the liberty to conduct a fresh auction/ sale of the property & the defaulting bidder shall not have any claim over the forfeited amount and the property.
- Payment of sale consideration by the successful bidder to the bank will be subject to TDS under Section 194-1A of Income Tax Act 1961 and TDS is to be made by the successful bidder only at the time of deposit of remaining 75 % of the bid amount/full deposit of BID amount.
- The Authorized Officer reserves the right to accept any or reject all bids, if not found acceptable or to postpone/cancel/adjourn/discontinue or vary the terms of the auction at any time without assigning any reason whatsoever and his decision in this regard shall be final, at any stage.
- In case any dispute or litigation or an adverse order passed by an appropriate court or tribunal etc. or for any reason whatsoever, Bank decides to return the money to the Bidders, no interest shall be paid for the period the amount is kept with the Bank. The decision of the Authorized Officer is final in this regard.
- The sale certificate shall be issued in the favor of successful bidder on deposit of full bid amount as per the provisions of the act.
- The properties are being sold on "AS IS WHERE IS BASIS" and "AS IS WHAT IS BASIS" and "WHATEVER THERE IS BASIS"
- The particulars of Secured Assets specified in the Schedule hereinabove have been stated to the best of the information of the Authorized Officer, but the Authorized Officer shall not be answerable for any error, misstatement or omission in this proclamation.
- It shall be the responsibility of the bidders to inspect and satisfy themselves about the asset and specification before submitting the bid. The bidder inspects the property in consultation with the dealing official as per the details provided.
- All statutory dues/attendant charges/other dues including registration charges, stamp duty, taxes etc. shall have to be borne by the purchaser.
- The Authorized Officer or the Bank shall not be responsible for any charge, lien, encumbrances, or any other dues to the Government or anyone else in respect of properties (E-Auctioned) not known to the bank. The Intending Bidder is advised to make their own independent inquiries regarding the encumbrances on the property including statutory liabilities, arrears of property tax, electricity dues etc.
- The bidder should ensure proper internet connectivity, power back-up etc. The Bank shall not be liable for any disruption due to internet failure, power failure or technical reasons or reasons/contingencies affecting the e-auctions.
- It is open to the Bank to appoint a representative and make self-bid and participate in the auction.  
For detailed term and conditions of the sale, please refer: <https://www.ibapi.in/> / <http://www.mstcecommerce.com/> / [www.pnbindia.in](http://www.pnbindia.in)

**STATUTORY SALE NOTICE UNDER RULE 8(6) OF THE SARFAESI ACT, 2002**

Place: Kolkata Date : 07.05.2024  
Authorized Officer, Punjab National Bank, Secured Creditor



(http://www.technoglobalhospital.com)



কলকাতা শনিবার ৭ নভেম্বর, ২০২০

(http://www.eajkaal.in)



(http://www.technoglobalhospital.com)

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ফর্ম নং- আইএনসি-২৫এ

পাবলিক কোম্পানি থেকে প্রাইভেট কোম্পানিতে পরিবর্তন উপলক্ষে সংবাদপত্রে বিজ্ঞাপন প্রকাশ  
রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন, কর্পোরেট বিষয়ক  
মন্ত্রক, কলকাতা সমীপে

কোম্পানি আইন, ২০১৩, কোম্পানি আইন ২০১৩-এর ১৪ ধারা  
এবং

কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর রুল  
৪১ অনুসারে, বিষয়: মেসার্স দি ইন্ডাস্ট্রিয়াল গ্যাসেস  
লিমিটেড, রেজিস্টার্ড অফিস: ১৫, গণেশচন্দ্র আর্ডিনিউ,  
কলকাতা- ৭০০ ০১৩

## সংশোধনী

ভুলক্রমে এই পত্রিকায়  
০৬.১১.২০২০ তারিখে ঋষি ট্রেডিং  
কোম্পানি লিমিটেড (CIN:  
U01409WB1980PTC195437)-  
এর বিজ্ঞাপন কনসোলিডেটেড ফটো  
অ্যান্ড ফিনভেস্ট লিমিটেড (CIN:  
U65993DL1996PLC081586)-এর  
নামে প্রকাশিত হয়েছিল। দয়া করে  
বিজ্ঞাপনের নাম কনসোলিডেটেড ফটো  
অ্যান্ড ফিনভেস্ট লিঃ-এর স্থানে ঋষি  
ট্রেডিং কোম্পানি লিমিটেড পড়তে হবে।  
অসুবিধার জন্য দুঃখিত।

... আবেদনকারী  
এতদ্বারা জনসাধারণের প্রতি বিজ্ঞপ্তি জারি করা হচ্ছে  
যে, পাবলিক কোম্পানি থেকে প্রাইভেট কোম্পানিতে  
বদলের উদ্দেশ্যে ৩ নভেম্বর, ২০২০ তারিখে বিশেষ  
সাধারণ সভায় গৃহীত বিশেষ প্রস্তাব অনুযায়ী কোম্পানির  
সম্মারকের রদবদলের অনুমোদন প্রার্থনা করে  
কোম্পানিজ আক্ট ২০১৩-এর ১৪ ধারা অনুসারে কেন্দ্রীয়  
সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন  
করার প্রস্তাব করেছে।

কোম্পানির রেজিস্টার্ড অফিসের প্রস্তাবিত স্ট্যাটাস  
পরিবর্তনের ফলে স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা আছে  
এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশের তারিখ থেকে  
চোদ্দো দিনের মধ্যে রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন,  
২৩৪, এ জে সি বোস রোড, নিজাম প্যালেস, II এমএস  
ও বিল্ডিং, ৪র্থ তল, কলকাতা-৭০০০২০-এর কাছে  
তীর/তীরের (স্ট্রী/পুং) স্বার্থের ধরন এবং বিরোধিতার কারণ  
উল্লেখ করে একটি হলফনামা দ্বারা সমর্থিত আপত্তিসমূহ  
রেজিস্টার্ড ডাকযোগে পাঠাতে পারেন, তৎসহ নিচে বর্ণিত  
ঠিকানাতে অবস্থিত অফিসে, আবেদনকারী কোম্পানির  
কাজেও একটি কপি পাঠাতে পারেন।

আবেদনকারী: দি ইন্ডাস্ট্রিয়াল গ্যাসেস লিমিটেডের  
পক্ষে  
স্বাঃ তেজেন্দ্র গর্গ  
ডিরেক্টর  
তারিখ: ০৬.১১.২০২০  
স্থান: কলকাতা  
DIN: 01417829  
রেজিস্টার্ড অফিসের সম্পূর্ণ ঠিকানা:  
১৫, গণেশচন্দ্র আর্ডিনিউ, কলকাতা- ৭০০ ০১৩

## বিএমডব্লু ইন্ডাস্ট্রিজ লিমিটেড

রেজিস্টার্ড অফিস: ১১৯, পার্ক স্ট্রিট, হোয়াইট

হাউস, ৪র্থ তল, কলকাতা- ৭০০ ০১৬

টেলি: ০৩৩-৪০০৭১৭০৪, ০৩৩২২২৬৮৮৮২

ইমেল: info@bmwil.co.in

Website: www.bmwil.co.in

CIN: L51109WB1981PLC034212

## বিজ্ঞপ্তি

সিকিউরিটিজ অ্যান্ড এক্সচেঞ্জ বোর্ড অফ ইন্ডিয়া (লিস্টিং  
অবলিগেশনস অ্যান্ড ডিসক্লোজার রিকায়ারমেন্টস)  
রেগুলেশনস ২০১৫ ('লিস্টিং রেগুলেশনস')  
রেগুলেশন ২৯ এবং সূচী-৩-এর অংশ ক অনুযায়ী  
বিজ্ঞপ্তি প্রদান করা হচ্ছে যে, কোম্পানির দ্বিতীয়  
ত্রৈমাসিক এবং ষাণ্মাসিক সমাপ্ত ৩০শে সেপ্টেম্বর,  
২০২০ সময়ের অপরিষ্কৃত একক এবং একীকৃত  
আর্থিক ফলাফল বিবেচনা ও অনুমোদনের জন্য  
কোম্পানির পরিচালন পর্ষদের একটি সভা কোম্পানির  
রেজিস্টার্ড অফিস: হোয়াইট হাউস, ১১৯, পার্ক স্ট্রিট,  
৪র্থ তল, কলকাতা- ৭০০ ০১৬-তে শুক্রবার, ১৩  
নভেম্বর, ২০২০ তারিখে অনুষ্ঠিত হবে।

বোর্ডের আদেশানুসারে

বিএমডব্লু ইন্ডাস্ট্রিজ লিমিটেডের পক্ষে

স্বাঃ বিক্রম কাপুর

তারিখ: ৬ নভেম্বর, ২০২০

কোম্পানি সেক্রেটারি

স্থান: কলকাতা

AcS No: A9812

## প্রকাশ্য বিজ্ঞপ্তি

এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, পশ্চিমবঙ্গ  
রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে  
রেজিস্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য লিঙ্কলাইন  
ট্রেডলিঙ্ক এলএলপি দ্বারা রেজিস্ট্রারের অফিসে লিমিটেড  
লায়াবিলিটি পার্টনারশিপ আক্ট, ২০০৮-এর ১৩ নং  
ধারায়ীনে একটি নোটিস পাঠানো হবে।

রেজিস্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল  
ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উদ্দেশ্যে  
প্রস্তাবে কারণ স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা থাকলে যে  
কোনও ব্যক্তি এই বিজ্ঞপ্তি সংবাদপত্রে প্রকাশিত হওয়ার  
তারিখ থেকে ২১ দিনের মধ্যে তাঁর (পুং/ স্ত্রী) স্বার্থের  
ধরন ও বিরোধিতার কারণ উল্লেখ করে রেজিস্ট্রারের  
কাজে লিখিতভাবে জানান এবং এর একটি কপি  
অবশ্যই লিঙ্কলাইন ট্রেডলিঙ্ক এলএলপি-এর নিম্নলিখিত  
রেজিস্টার্ড অফিসের ঠিকানায় পেশ করতে হবে:  
রেজিস্টার্ড অফিসের ঠিকানা: ৩এ, আর কে চ্যাটার্জি রোড,  
কলকাতা-৭০০০৪২।

লিঙ্কলাইন ট্রেডলিঙ্ক এলএলপি-এর তরফে  
স্বাঃ- বিজাল মোদি  
বেডি কর্পোরেট  
জিপি নমিনি)  
তারিখ: ০৬.১১.২০২০  
স্থান: কলকাতা  
ডিআইএন: 08413323

## NOTICE

My client Banibrata Sanyal died intestate on 23rd  
July 2016 leaving behind her sister Sovona  
Chakraborty as his sole legal heir in respect of one  
residential Flat being No C/4 on the 4th Floor of  
the Building known as "REVATI" having  
measurement of 1280 sq. ft. Super built up area  
more or less within Neelachal Abasan Co-operative  
Society Ltd situated at premises no 98, Rajdanga  
Gold Park, Kolkata- 700107, Police Station Kasba,  
within the Kolkata Municipal Corporation, District-  
South 24 Parganas and the said Sovona  
Chakraborty died intestate on 10th August 2019  
leaving behind her only daughter Mrs Sreeparna  
Chakraborty (Sengupta) as her sole legal heir. If  
any person has any claim of any nature in the said  
property please claim with documents within 15  
days from this publication under my address  
otherwise it shall be deemed to have no claim of  
any nature the above said property.

Anirban Gope, Advocate

22, R.N.Mukherjee Road, 4th Floor  
Kolkata- 700057

## প্রকাশ্য বিজ্ঞপ্তি

এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, পশ্চিমবঙ্গ  
রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে  
রেজিস্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য গ্ল্যামার  
শপার্স এলএলপি দ্বারা রেজিস্ট্রারের অফিসে লিমিটেড  
লায়াবিলিটি পার্টনারশিপ আক্ট, ২০০৮-এর ১৩ নং  
ধারায়ীনে একটি নোটিস পাঠানো হবে।

রেজিস্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল  
ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উদ্দেশ্যে  
প্রস্তাবে কারণ স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা থাকলে যে  
কোনও ব্যক্তি এই বিজ্ঞপ্তি সংবাদপত্রে প্রকাশিত হওয়ার  
তারিখ থেকে ২১ দিনের মধ্যে তাঁর (পুং/ স্ত্রী) স্বার্থের  
ধরন ও বিরোধিতার কারণ উল্লেখ করে রেজিস্ট্রারের  
কাজে লিখিতভাবে জানান এবং এর একটি কপি অবশ্যই গ্ল্যামার

## বিজ্ঞপ্তি

সকলকে জানানো যাইতেছে যে, আমরা  
ব্রাহ্ম স্পঞ্জ আয়রন প্রাঃ লিঃ, পরিবেশ  
বন ও জলবায়ু পরিবর্তন মন্ত্রণালয়,

শপার্স এলএলপি-এর নিম্নলিখিত রেজিস্টার্ড অফিসের ঠিকানায় পেশ করতে হবে:  
রেজিস্টার্ড অফিসের ঠিকানা: ৩এ, আর কে চ্যাটার্জি রোড, কলকাতা-৭০০০৪২।

গ্যামার শপার্স এলএলপি-এর তরফে  
স্বাক্ষর- কোভিড মুখার্জি  
(বেডি কর্পোরেট  
ডিপি নমিনি)  
তারিখ: ০৬.১১.২০২০  
স্থান: কলকাতা ডিআইএন: 03570652

### প্রকাশ্য বিজ্ঞপ্তি

এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে রেজিস্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য গোল্ডস্মিথ শপার্স এলএলপি দ্বারা রেজিস্ট্রারের অফিসে লিমিটেড লায়ালিটি পার্টনারশিপ অ্যাক্ট, ২০০৮-এর ১৩ নং ধারায় একটি নোটিস পাঠানো হবে।

রেজিস্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উক্ত প্রস্তাবে কারও স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা থাকলে যে কোনও ব্যক্তি এই বিজ্ঞপ্তি সংবাদপত্রে প্রকাশিত হওয়ার তারিখ থেকে ২১ দিনের মধ্যে তাঁর (পুং/ স্ত্রী) স্বার্থের ধরন ও বিরোধিতার কারণ উল্লেখ করে রেজিস্ট্রারের কাছে লিখিতভাবে জানান এবং এর একটি কপি অবশ্যই গোল্ডস্মিথ শপার্স এলএলপি-এর নিম্নলিখিত রেজিস্টার্ড অফিসের ঠিকানায় পেশ করতে হবে:  
রেজিস্টার্ড অফিসের ঠিকানা: ৩এ, আর কে চ্যাটার্জি রোড, কলকাতা-৭০০০৪২।

গোল্ডস্মিথ শপার্স এলএলপি-এর তরফে  
স্বাক্ষর- পবন কুমার অনছলিয়া  
(বেডি কর্পোরেট  
ডিপি নমিনি)  
তারিখ: ০৬.১১.২০২০  
স্থান: কলকাতা ডিআইএন: 02912037

### প্রকাশ্য বিজ্ঞপ্তি

লিমিটেড লাইবেলিটি পার্টনারশিপ রুলস ২০১৭, রুল ১৭ (৪) অনুযায়ী।  
এলএলপি-এর রেজিস্টার্ড অফিস এক রাজ্য থেকে অন্য রাজ্যে স্থানান্তরের উদ্দেশ্যে সংবাদপত্রে বিজ্ঞাপন প্রকাশ

সম্পর্কিত: ওয়াডারফুল ডিলার এলএলপি (LL-PIN:AAT-8257) যার রেজিস্টার্ড অফিস প্রযুক্তি বেদপ্রকাশ কান্দোই, ঘর নং ৫৫, ভূপেন্দ্র বোস আডিনিউ, ফ্ল্যাট ২ বি, ৩য় তল, কলকাতা-৭০০ ০০৪ জনসাধারণকে এতদ্বারা বিজ্ঞপ্তি প্রদান করা হচ্ছে যে, এল এল পি লিমিটেড লাইবেলিটি পার্টনারশিপ অ্যাক্ট ২০০৮ সেকশন ১৩ (৩) অনুযায়ী তাদের রেজিস্টার্ড অফিস 'পশ্চিমবঙ্গ রাজ্য' থেকে 'আসাম রাজ্যে' স্থানান্তরের জন্য রেজিস্ট্রার-এর কাছে একটি আবেদন জমা করবার প্রস্তাব করেছেন।

এলএলপি-এর প্রস্তাবিত পরিবর্তনের ফলে স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশিত হওয়ার ২১ (একুশ) দিনের মধ্যে রেজিস্ট্রার অফ কোম্পানিজ, নিজাম প্যালেস, ২য় এম এস ও বিল্ডিং, ৩য় তল, ২৩৪/৪, এ জে সি বোস রোড, কলকাতা-৭০০ ০২০-এর কাছে তাদের স্বার্থের ধরন এবং বিরোধিতা উল্লেখ করে হলফনামা সহ সমর্থিত আপত্তিসমূহ পাঠাতে পারেন। তৎসহ নীচে বর্ণিত ঠিকানাতে এলএলপি-এর অফিসে পাঠাতে পারেন।

ওয়াডারফুল ডিলার এলএলপি  
প্রযুক্তি বেদপ্রকাশ কান্দোই, ঘর নং ৫৫ ভূপেন্দ্র বোস  
আডিনিউ, ফ্ল্যাট ২ বি, ৩য় তল,  
কলকাতা-৭০০ ০০৪

ওয়াডারফুল ডিলার এল এল পি-এর পক্ষে  
স্বাক্ষর/  
প্রদীপকুমার আগরওয়াল  
তারিখ: ০৬.১১.২০২০  
স্থান: কলকাতা  
মনোনীত অংশীদার  
DPIN: 01461392

### প্রকাশ্য বিজ্ঞপ্তি

লিমিটেড লাইবেলিটি পার্টনারশিপ রুলস ২০১৭, রুল ১৭ (৪) অনুযায়ী।  
এলএলপি-এর রেজিস্টার্ড অফিস এক রাজ্য থেকে অন্য রাজ্যে স্থানান্তরের উদ্দেশ্যে সংবাদপত্রে বিজ্ঞাপন প্রকাশ

সম্পর্কিত: লাইটস্টেল ডিনকম এলএলপি (LLPIN:AAT-8267) যার রেজিস্টার্ড অফিস প্রযুক্তি বেদপ্রকাশ কান্দোই, ঘর নং ৫৫, ভূপেন্দ্র বোস আডিনিউ, ফ্ল্যাট ২বি, ৩য় তল, কলকাতা-৭০০ ০০৪ জনসাধারণকে এতদ্বারা বিজ্ঞপ্তি প্রদান করা হচ্ছে যে, এল এল পি লিমিটেড লাইবেলিটি পার্টনারশিপ অ্যাক্ট ২০০৮ সেকশন ১৩ (৩) অনুযায়ী তাদের রেজিস্টার্ড অফিস 'পশ্চিমবঙ্গ রাজ্য' থেকে 'আসাম রাজ্যে' স্থানান্তরের জন্য রেজিস্ট্রার-এর কাছে একটি আবেদন জমা করবার প্রস্তাব করেছেন।

এলএলপি-এর প্রস্তাবিত পরিবর্তনের ফলে স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশিত হওয়ার ২১ (একুশ) দিনের মধ্যে রেজিস্ট্রার অফ কোম্পানিজ নিজাম প্যালেস, ২য় এম এস ও বিল্ডিং, ৩য় তল, ২৩৪/৪, এ জে সি বোস রোড, কলকাতা-৭০০ ০২০-এর কাছে তাদের স্বার্থের ধরন এবং বিরোধিতা উল্লেখ করে হলফনামা সহ সমর্থিত আপত্তিসমূহ পাঠাতে পারেন। তৎসহ নীচে বর্ণিত ঠিকানাতে এলএলপি-এর অফিসে পাঠাতে পারেন।

লাইটস্টেল ডিনকম এলএলপি

ভারত সরকার হইতে পঃ বঃ রাজ্যের পুর্নলিয়া জেলার গ্রাম-মহুদা, পোঃ রুকনি, সম্প্রসারণ করিয়া বাৎসরিক পেলেট প্লান্ট মারফত গ্রাইনডিং ফেসিলিটি সহযোগে (২ x ০.৮৫ MTPA), স্পঞ্জ আয়রন প্লান্ট (১ x ৩৫০ TPD ক্লিন), ইন্ডাকসন ফারনেসের (৩ x ২৫ টি), ক্যাপাসিটি রিভিশন অনুমোদিত ৬০০ TPD হইতে ১০০০ TPD রোলিং মিল সঙ্গে ৭ MW ক্ষমতা সম্পন্ন ক্যাপটিভ পাওয়ার প্লান্ট (WHRB ভিত্তিক ইউটাইলাইজিং ওয়েস্ট হিট হইতে প্রস্তুত স্পঞ্জ প্লান্ট) এবং প্রোডিউসার গ্যাস প্লান্ট (১২ x ৪০০০ Nm<sup>3</sup>/hr) উৎপাদন প্লান্ট স্থাপনে অনুমতি পাইয়াছি, মেমো নং. F. No. J-11011/758 / 2009-IA.II(I) তাং ০৫.১১.২০২০ আমরা সকলের সহযোগিতা কামনা করিতেছি।

ব্রাহ্ম স্পঞ্জ আয়রন প্রাঃ লিঃ  
Sd/-

ফর্ম নং- আই এন সি-২৬

কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর রুল ৩০ অনুযায়ী

এক রাজ্য থেকে অন্য রাজ্যে কোম্পানির রেজিস্টার্ড অফিস পরিবর্তন উপলক্ষে সংবাদপত্রে বিজ্ঞাপন প্রকাশ  
রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন, কলকাতা সমীপে কোম্পানি আইন, ২০১৩-এর ১৩ ধারার (৪) উপধারা অনুসারে এবং কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর রুল ৩০-এর সাব-রুল (৫) উপধারার রুল (এ) অনুসারে

এবং

নিম্নোক্ত সম্পর্ক: ইমেজ ক্লিয়েশন শাড়িস প্রাইভেট লিমিটেড (CIN: U17122WB2008PTC123209), রেজিস্টার্ড অফিস: ৪/১/১বি, হরপ্রসাদ দে লেন, ২য় তল, ঢাকা পল্লির নিকটে, কলকাতা- ৭০০ ০০৭, পশ্চিমবঙ্গ

...আবেদনকারী

এতদ্বারা জনসাধারণের প্রতি বিজ্ঞপ্তি জারি করা হচ্ছে যে, 'পশ্চিমবঙ্গ রাজ্য' থেকে 'গুজরাত রাজ্যে' রেজিস্টার্ড অফিস স্থানান্তরের উদ্দেশ্যে ৬ অক্টোবর, ২০২০ তারিখে অনুষ্ঠিত বিশেষ সাধারণ সভায় গৃহীত বিশেষ প্রস্তাব অনুযায়ী কোম্পানির সঙ্ক্ষমারকের রদবদলের অনুমোদন প্রার্থনা করে কোম্পানিজ অ্যাক্ট, ২০১৩-এর ১৩ ধারা অনুসারে কেন্দ্রীয় সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন করার প্রস্তাব করেছে।

কোম্পানির রেজিস্টার্ড অফিসের প্রস্তাবিত পরিবর্তনের ফলে স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশের তারিখ থেকে ১৪ (চৌদ্দ) দিনের মধ্যে এমসিএ-২১ পোর্টাল (www.mca.gov.in)-এ ইন্ডেক্সের কমপ্লিইন ফর্ম পূরণ করে অথবা রেজিস্টার্ড ডাকযোগে রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন, ২৩৪/৪, আচার্য জগদীশ চন্দ্র বোস রোড, নিজাম প্যালেস, II এম এস ও বিল্ডিং, ৪র্থ তল, কলকাতা-৭০০ ০২০-এর কাছে তাঁর/তাদের (স্ত্রী/পুং) স্বার্থের ধরন এবং বিরোধিতার কারণ উল্লেখ করে একটি হলফনামা দ্বারা সমর্থিত আপত্তিসমূহ পাঠাতে পারেন, তৎসহ ওপরে বর্ণিত ঠিকানাতে অবস্থিত অফিসে, আবেদনকারী কোম্পানির কাছেও একটি কপি পাঠাতে পারেন। যার ঠিকানা- রেজিস্টার্ড অফিস- ৪/১/২বি, হরপ্রসাদ দে লেন, ২য় তল, ঢাকা পল্লির নিকটে, কলকাতা- ৭০০ ০০৭, পশ্চিমবঙ্গ

আবেদনকারী

ইমেজ ক্লিয়েশন শাড়িস প্রাইভেট লিমিটেড-এর পক্ষে  
স্বাক্ষর মনোজ কুমার জৈন  
তারিখ: ০৭.১১.২০২০  
স্থান: কলকাতা  
ডিরেক্টর  
DIN: 01834584

ফর্ম নং- আইএনসি-২৫এ

কেন্দ্রীয় সরকার, রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন, কর্পোরেট বিষয়ক মন্ত্রক, কলকাতা সমীপে কোম্পানি আইন, ২০১৩, কোম্পানি আইন ২০১৩-এর ১৪ ধারা

এবং

কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর রুল ৪১ অনুসারে

বিষয়: নটরাজ টেকনোসফট লিমিটেড, রেজিস্টার্ড অফিস: ৫ এফ, এডারেস্ট, ৪৬/সি, চৌরঙ্গি রোড, কলকাতা- ৭০০ ০৭১, পশ্চিমবঙ্গ

... আবেদনকারী

এতদ্বারা জনসাধারণের প্রতি বিজ্ঞপ্তি জারি করা হচ্ছে যে, পাবলিক কোম্পানি থেকে প্রাইভেট কোম্পানিতে বদলের উদ্দেশ্যে ৩০ অক্টোবর, ২০২০ তারিখে বিশেষ সাধারণ সভায় গৃহীত বিশেষ প্রস্তাব অনুযায়ী কোম্পানির সঙ্ক্ষমারকের রদবদলের অনুমোদন প্রার্থনা করে কোম্পানিজ অ্যাক্ট ২০১৩-এর ১৪ ধারা অনুসারে কেন্দ্রীয় সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন করার প্রস্তাব করেছে।

কোম্পানির রেজিস্টার্ড অফিসের প্রস্তাবিত স্ট্যাটাস পরিবর্তনের ফলে স্বার্থ ক্ষুণ্ণ হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশের তারিখ থেকে চৌদ্দ দিনের মধ্যে রিজিওনাল ডিরেক্টর, ইন্টার্ন রিজিয়ন, ২৩৪, এ জে সি বোস রোড, নিজাম প্যালেস, II এমএস ও বিল্ডিং, ৪র্থ তল, কলকাতা-৭০০০২০-এর কাছে তাঁর/তাদের (স্ত্রী/পুং) স্বার্থের ধরন এবং বিরোধিতার কারণ উল্লেখ করে একটি হলফনামা দ্বারা সমর্থিত আপত্তিসমূহ রেজিস্টার্ড ডাকযোগে পাঠাতে পারেন, তৎসহ নিচে বর্ণিত ঠিকানাতে অবস্থিত অফিসে, আবেদনকারী কোম্পানির কাছেও একটি কপি পাঠাতে

প্রযুক্তি বেদপ্রকাশ কান্দেই, ঘর নং ৫৫ ভূপেন্দ্র বোস  
 অ্যাভিনিউ, ফ্লাট ২বি, ৩য় তল, কলকাতা-৭০০ ০০৪  
 নাইটস্কেল ডিনকম এল এল পি-এর পক্ষে  
 স্বাঃ/  
 ইশান্ত আগরওয়াল  
 তারিখ: ০৬.১১.২০২০ মনোনীত অংশীদার  
 স্থান: কলকাতা DPIN: 03482066

পারেন।  
 রেজিস্টার্ড অফিসের ঠিকানা: ৫ এফ, এভারেস্ট, ৪৬/সি,  
 চৌরঙ্গি রোড, কলকাতা- ৭০০ ০৭১, পশ্চিমবঙ্গ  
 আবেদনকারী: নটরাজ টেকনোসফট লিমিটেড-এর  
 পক্ষে  
 স্বাঃ অনিল কুমার আগরওয়াল  
 তারিখ: ০৭.১১.২০২০ ম্যানেজিং ডিরেক্টর  
 স্থান: কলকাতা DIN: 00479628

## Open A Zero Bal Account Online

বিজ্ঞাপন Kotak 811

## Blazing Fast VPN

বিজ্ঞাপন NordVPN



## Online Cake Delivery

বিজ্ঞাপন Winni

## NOTICE

We, Bravo Sponge Iron Pvt. Ltd. would like to inform everyone that we have obtained permission (EC) for setting up proposed expansion of the Steel Plant by installation of Pellet Plant with Grinding Facility (2x0.85 MTPA), Sponge Iron Plant (1x350 TPD Kiln), Induction Furnaces (3x25T). Capacity revision from approved 600 TPD to 1000 TPD Rolling Mill along with 7 MW capacity Captive Power Plant (WHRB based, utilized waste heat from the proposed sponge plant) and Producer Gas Plant (12x4000 Nm<sup>3</sup>/hr) located at Vill: Mahuda, P.O.: Rukni, Dist.: Purulia, W.B. from Ministry of Environment, Forest & Climate Change (I.A. Division), Govt. of India vide Memo No. F. No. J-11011/758 / 2009-IA.II(I) dated, 05.11.2020.

For Bravo Sponge Iron Pvt. Ltd. Sd/-

## PSL LIMITED

Regd. Office : Kachigam, Daman, U.T. of Daman & Diu-396210  
CIN NO. L67120DD1987PLC002395

**NOTICE**

Pursuant to Regulations 47 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, notice is hereby given that a meeting of Board of Directors of the Company is scheduled to be held on Friday, the 13th day of November, 2020 to consider, approve and take on record the un-audited Financial Results for the Quarter & Half Year ended on 30th September, 2020.

The said notice is also available on the website of the company i.e. [www.pslimited.com](http://www.pslimited.com) and website of the stock exchanges i.e. [www.bseindia.com](http://www.bseindia.com) and [www.nseindia.com](http://www.nseindia.com) For PSL LIMITED Sd/-

Place : NEW DELHI  
Date : 06 Nov. 2020

NITIN JAIN  
LIQUIDATOR

## DYNAMIC MICROSTEPPERS LIMITED

CIN: L52390MH2011PLC213349

Regd. Office: 508, Midhara Arcade, Above Axis Bank, Near Gateway, Subhash Road, Vile Parle (East), Mumbai - 400 071.  
Tel No: 022-26842621 / Fax No: 022-26843792.  
Website: [www.dynamicmicrosteppers.com](http://www.dynamicmicrosteppers.com)  
Email id: [dynamicmicrosteppers@psl.com](mailto:dynamicmicrosteppers@psl.com)

**NOTICE**

Pursuant to Regulation 47 read with Regulation 29 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, (as may be amended from time to time), Notice is hereby given that the Meeting of the Board of Directors of the Company is scheduled to be held on Friday, 13<sup>th</sup> November, 2020 inter alia to consider, approve and take on record the un-audited financial results of the Company for quarter and half year ended on September, 30, 2020.

Further, in terms of the Company's Code of Conduct and SEBI (Prohibition of Insider Trading) Regulations, 2015, the trading window for dealing in securities of the Company by its designated persons, shall remain closed till the forty-eight hours after the conclusion of Board Meeting convened for considering and approving un-audited financial results for the quarter and half year ended September 30, 2020.

This information is also available on the website of the company at [www.dynamicmicrosteppers.com](http://www.dynamicmicrosteppers.com) and on the website of the Stock Exchange where the shares of the Company are listed at [www.bseindia.com](http://www.bseindia.com)

For Dynamic Microsteppers Limited Sd/-  
Ashwin Shah  
Director

Place: Mumbai  
Date: 06.11.2020



## TATA STEEL LIMITED

Registered Office: Bombay House, 24, Horni Mody Street, Fort, Mumbai - 400 001, India  
Tel.: +91 22 6665 8282  
Email: [cosec@tatasteel.com](mailto:cosec@tatasteel.com) Website: [www.tatasteel.com](http://www.tatasteel.com)  
CIN: L27100MH1907PLC000260

## NOTICE

A meeting of the Board of Directors of Tata Steel Limited (the 'Company') will be held on Friday, November 13, 2020, *inter alia*, to consider and take on record the audited Standalone and unaudited Consolidated financial results of the Company for the quarter and half year ended September 30, 2020.

The financial results will be made available on the website of the Company at [www.tatasteel.com](http://www.tatasteel.com) as well as on the website of the National Stock Exchange of India Limited at [www.nseindia.com](http://www.nseindia.com) and BSE Limited at [www.bseindia.com](http://www.bseindia.com).

Tata Steel Limited

Sd/-

Parvathesam Kanchinadham  
Company Secretary &  
Chief Legal Officer (Corporate & Compliance)

November 6, 2020  
Mumbai

TATA STEEL

## HOME CREDIT India Finance Private Limited

CIN: U65910HR1997PTC047448  
Regd. Office: Third Floor, Tower C DLF Infinity Towers, DLF Cyber City-Phase II, Gurgaon, Haryana -122002, Website: [www.homecredit.co.in](http://www.homecredit.co.in)

Unaudited financial results for the six month ended September 30, 2020  
(All amount in Rupees lakhs unless otherwise stated)

S. No.	Particulars	Half year ended	Half year ended	Year ended
		30 September 2020	30 September 2019	31 March 2020
		(Unaudited)	(Unaudited)	(Audited)
1.	Total income from operations	136,343.46	148,413.90	311,514.69
2.	Net profit/(loss) for the period (before tax, exceptional and/or extraordinary items)	(49,506.21)	11,822.42	11,704.06
3.	Net Profit/(loss) for the period before tax (after exceptional and/or extraordinary items)	(49,506.21)	11,822.42	11,704.06
4.	Net Profit/(loss) for the period after tax (after exceptional and/or extraordinary items)	(37,339.58)	2,261.33	(4,514.42)
5.	Total comprehensive income for the year [Comprising profit/ (loss) for the year (after tax) and other comprehensive income (after tax)]	(37,406.71)	2,196.65	(4,799.70)
6.	Paid up equity share capital	97,658.32	97,658.32	97,658.32
7.	Reserves (excluding revaluation reserve)	114,337.52	158,740.57	151,744.23
8.	Net worth	211,995.84	256,398.89	249,402.55
9.	Outstanding debt	542,043.03	537,949.11	610,637.96
10.	Outstanding redeemable preference shares	-	-	-
11.	Debt equity ratio	2.56	2.10	2.45
12.	Earnings per share (of Rs. 10/- each)*			
	- Basic	(3.82)	0.23	(0.46)
	- Diluted	(3.82)	0.23	(0.46)
13.	Capital redemption reserve (refer note 5)	Not Applicable	Not Applicable	Not Applicable
14.	Debt redemption reserve (refer note 5)	Not Applicable	Not Applicable	Not Applicable
15.	Debt service coverage ratio (refer note 5)	Not Applicable	Not Applicable	Not Applicable
16.	Interest service coverage ratio (refer note 5)	Not Applicable	Not Applicable	Not Applicable

\*EPS for six months ended 30 September 2020 and 30 September 2019 has not been annualised

## Note:

- In accordance with Regulation 52 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, the Company has published unaudited financial results for the six month ended 30 September 2020. The above unaudited financial results were reviewed by the Audit Committee at its meeting held on 06 November 2020 and approved by the Board of Directors at its meeting held on 06 November 2020.
- The above is an extract of the detailed unaudited financial results filed with Stock Exchange under Regulation 52 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015. The full financial results are available on the website of the Bombay Stock Exchange and the website of the Company ([www.homecredit.co.in](http://www.homecredit.co.in)).
- For the items in sub-clauses (a), (b), (d) & (e) of the Regulation 52(4) of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, the pertinent disclosures have been made to the Bombay Stock Exchange and can be accessed on [www.bseindia.com](http://www.bseindia.com).
- Previous year/period figures have been regrouped/rearranged, wherever considered necessary, to conform to the classification/disclosure adopted in the current year.
- The pertinent items have not been disclosed since it is not required as per Regulation 52(4) of the SEBI (Listing and Other Disclosure Requirements) Regulations, 2015.

For and on behalf of the Board of Directors of

Home Credit India Finance Private Limited

Sd/-

Ondrej Kubik

Director

Place: Gurugram

Date: 6 November 2020

## J. L. Morison (India) Limited

CIN: L51109WB1934PLC088167

Regd. Office: Raso Court 20, Sir R. N. Mukherjee Road, Kolkata - 700 001.

Tel.: (033) 2248 0141/5, E-mail: [investors@jlmorison.com](mailto:investors@jlmorison.com), Website: [www.jlmorison.com/corporate](http://www.jlmorison.com/corporate)NOTICE OF 85<sup>th</sup> ANNUAL GENERAL MEETING,

## REMOTE E-VOTING INFORMATION AND BOOK CLOSURE

Pursuant to the provisions of Section 108 of the Companies Act, 2013 and Rule 20 of the Companies (Management and Administration) Rules, 2014, notice is hereby given that:

- The 85<sup>th</sup> Annual General Meeting ('AGM') of the Company will be held on Monday, the 30<sup>th</sup> November, 2020 at 11.45 a.m. at Club Ecovista, Ecospaces Business Park, Plot No. IIF/11, Action area II, Rajarhat, Newtown, Kolkata - 700160 to transact the business as set out in the Notice of AGM dated 3<sup>rd</sup> November, 2020.
- The Notice of AGM along with Annual Report for the year ended 31<sup>st</sup> March, 2020 have been sent to all the members at their registered address through courier/post and e-mailed at their registered e-mail ids on 5<sup>th</sup> November, 2020.
- Members holding shares either in physical form or dematerialized form, as on the cut-off date i.e. Friday, 20<sup>th</sup> November, 2020 may cast their vote electronically on the Ordinary and Special businesses as set out in the Notice of the 85<sup>th</sup> AGM through electronic voting system of National Securities Depository Limited (NSDL) from a place other than venue of AGM ('remote E-Voting').
- All the members are informed that:
  - The Ordinary and the Special businesses set out in the Notice of 85<sup>th</sup> AGM may be transacted through voting by electronic means, i.e. remote e-voting;
  - The remote e-voting shall commence on Friday, 27<sup>th</sup> November, 2020 at 9.00 a.m.;
  - The remote e-voting shall end on Sunday, 29<sup>th</sup> November, 2020 at 5.00 p.m.;
  - The cut-off date for determining the eligibility to vote by electronic means or at the AGM is Friday, 20<sup>th</sup> November, 2020;
  - Any person, who acquires shares of the Company and becomes member of the Company after dispatch of the Notice of the 85<sup>th</sup> AGM and holding shares as on the cut-off date i.e. Friday, 20<sup>th</sup> November, 2020, may obtain the login ID and password by sending a request at [evoting@nsdl.co.in](mailto:evoting@nsdl.co.in) or [rtat@bmsl.com](mailto:rtat@bmsl.com). However, if a person is already registered with NSDL for e-voting then existing user ID and password can be used for casting vote;
  - Members may note that: a) the remote e-voting module shall be disabled by NSDL after the aforesaid date and time for voting and once the vote on a resolution is cast by the member, the member shall not be allowed to change it subsequently; b) the facility for voting through ballot papers shall be made available at the AGM; c) the members who have cast their vote by remote e-voting facility may also attend the AGM but shall not be entitled to cast vote again; and d) a person whose name is recorded in the Register of Members and Register of Beneficial Owners as on the cut-off date i.e. Friday, 20<sup>th</sup> November, 2020 only shall be entitled to avail the facility of remote e-voting as well as voting at the AGM through ballot/polling papers;
- The notice of the AGM is available on the NSDL's website [www.evoting.nsdl.com](http://www.evoting.nsdl.com) and on the Company's website [www.jlmorison.com/corporate](http://www.jlmorison.com/corporate);
- In case of queries, members may refer to the Frequently Asked Questions (FAQs) for members and e-voting user manual for members at the Help Section of [www.evoting.nsdl.com](http://www.evoting.nsdl.com) or call on helpdesk no: 1800222990 or contact Ms. Pallavi Mhatre Manager at telephone no. 022-24994545 who will also address the discrepancies connected with the voting by electronic means. Members may also write to the Company at the email ID [investors@jlmorison.com](mailto:investors@jlmorison.com) or the Registered Office Address as mentioned above.
- Pursuant to the provisions of Section 91 of the Companies Act, 2013 and Regulation 42 of the SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015, the Register of Members and the Share Transfer books of the Company will remain closed from Saturday, 21<sup>st</sup> November, 2020 to Monday, 30<sup>th</sup> November, 2020 (both days inclusive) for 85<sup>th</sup> Annual General Meeting and determining the entitlement of the shareholders for the dividend for the year ended 31<sup>st</sup> March, 2020.

For J. L. Morison (India) Limited

Sd/-

Sonal Naik

Company Secretary &amp; Compliance Officer

Place: Mumbai

Date: 6<sup>th</sup> November, 2020

## The Shipping Corporation Of India Ltd.

(A Government of India Enterprise)

Shipping House, 245, Madam Cama Road, Mumbai-400 021. Website: [www.shipindia.com](http://www.shipindia.com)

Twitter: @shippingcorp; CIN No.: L63030MH1950GOI008033

## STATEMENT OF UNAUDITED FINANCIAL RESULTS FOR THE QUARTER ENDED 30.09.2020

(Amount in ₹ lakhs)

Sr. No.	Particulars	STANDALONE			CONSOLIDATED		
		Quarter Ended 30.09.2020 (Unaudited)	Half Year Ended 30.09.2020 (Unaudited)	Quarter Ended 30.09.2019 (Unaudited)	Quarter Ended 30.09.2020 (Unaudited)	Half Year Ended 30.09.2020 (Unaudited)	Quarter Ended 30.09.2019 (Unaudited)
1	Total income from Operations	84,321	198,667	97,444	84,321	198,667	97,444
2	Net Profit/(Loss) for the period (Before Tax, Exceptional and/or Extraordinary items)	13,338	46,496	(4,054)	14,414	49,511	(2,491)
3	Net Profit/(Loss) for the period before tax (after Exceptional and/or Extraordinary items)	13,338	46,496	(4,054)	14,414	49,511	(2,491)
4	Net Profit/(Loss) for the period after tax (after Exceptional and/or Extraordinary items)	13,113	44,861	(5,654)	14,189	47,876	(4,091)
5	Total Comprehensive Income for the period [Comprising Profit/(Loss) for the period (after tax) and Other Comprehensive Income (after tax)]	14,111	46,225	(5,513)	15,168	47,484	(6,112)
6	Equity Share Capital	46,580	46,580	46,580	46,580	46,580	46,580
7	Reserves (excluding Revaluation Reserve) as shown in the Audited Balance Sheet of the previous year	-	-	-	-	-	-
8	Earnings Per Share (of ₹ 10 each) (for continuing and discontinued operations) (in ₹)						
	Basic:	2.82	9.63	(1.21)	3.05	10.28	(0.88)
	Diluted:	2.82	9.63	(1.21)	3.05	10.28	(0.88)

- The above is an extract of the detailed format of Quarterly/Half yearly Financial Results filed with the Stock Exchanges under Regulation 33 of SEBI (Listing and Other Disclosure Requirements) Regulations, 2015. The Full format of the Quarterly/Half yearly Financial Results are available on the Stock Exchange websites ([www.bseindia.com](http://www.bseindia.com) and [www.nseindia.com](http://www.nseindia.com)) Company's website: [www.shipindia.com](http://www.shipindia.com)
- Standalone & Consolidated Financial results for the quarter and half year ended 30<sup>th</sup> September 2020 are in compliance with Indian Accounting Standards (Ind-AS).
- The above results have been reviewed by the Audit Committee and approved by the Board of Directors at their respective meetings held on 6<sup>th</sup> November 2020.

For The Shipping Corporation of India Ltd

Mrs. H. K. Joshi

Chairperson &amp; Managing Director (Finance) Adtl. charge

DIN - 07085755

Place: Mumbai

Date: 06.11.2020

TRANSPORTING GOODS. TRANSFORMING LIVES.



MRVL

MANDHANA RETAIL VENTURES LTD.

## THE MANDHANA RETAIL VENTURES LIMITED

CIN: L52390MH2011PLC213349

Registered Office: Plot No. E-132, MIDC Tarapur Industrial Area, Boisar, Dist. Palghar - 401506

Corporate Office: 014, Peninsula Centre, Dr. S S Rao Road, Parel, Mumbai - 400012

Tel No:- 022 43539790 • Email:- [cs@tmrvl.com](mailto:cs@tmrvl.com) • Website: [www.mrvlindia.com](http://www.mrvlindia.com)Extract of Unaudited Financial Results for the Quarter ended 30<sup>th</sup> June, 2020

(Rs. In Lakh, except earnings per share)

Sr. No.	Particulars	Quarter Ended		Year Ended	
		30.06.2020	31.03.2020	30.06.2019	31.03.2020
		Unaudited	Audited	Unaudited	Audited
1	Total Income from Operations	171.60	2,041.04	4,627.46	16,073.17
2	Net Profit / (Loss) for the period (before tax, Exceptional and/or Extraordinary items)	(68.04)	(1,634.56)	23.54	(2,193.91)
3	Net Profit / (Loss) for the period before tax (after Exceptional and/or Extraordinary items)	(68.04)	(1,634.56)	23.54	(2,193.91)
4	Net Profit / (Loss) for the period after tax (after Exceptional and/or Extraordinary items)	(68.04)	(2,564.59)	33.87	(3,105.02)
5	Total Comprehensive Income for the period [Comprising Profit / (Loss) for the period (after tax) and Other Comprehensive Income (after tax)]	(10.47)	22.52	2.70	22.52
6	Equity Share Capital	2208.26	2208.26	2208.26	2208.26
7	Other Equity	-	-	-	1,393.10
8	Earnings Per Share (of Rs. 10/- each) (for continuing and discontinued operations) -				
	1. Basic	(0.31)	(11.61)	0.15	(14.06)
	2. Diluted	(0.31)	(11.61)	0.15	(14.06)

## Notes:

- The above financial results have been reviewed by the Audit Committee and approved by the Board of Directors at their respective meeting held on 6<sup>th</sup> November, 2020.
- The above is an extract of the detailed format of Unaudited Financial Results filed with the Stock Exchanges under Regulation 33 of the SEBI (Listing Obligations & Disclosure Requirements) Regulations, 2015. The full format of the Unaudited Financial Results are available on the website of the BSE Limited at their website [www.bseindia.com](http://www.bseindia.com) and National Stock Exchange of India Limited at their website [www.nseindia.com](http://www.nseindia.com) and on the website of the Company at [www.mrvlindia.com](http://www.mrvlindia.com)

By Order of the Board of Directors

FOR THE MANDHANA RETAIL VENTURES LIMITED

Sd/-

PRIYAVRAT P. MANDHANA

EXECUTIVE DIRECTOR

DIN: 02446722

Mumbai

06<sup>th</sup> November, 2020

OUR SPECIALITY IS YOU

## ARTEMIS MEDICARE SERVICES LIMITED

Plot No.14, Sector 20, Dwarka, South West Delhi, Delhi- 110075

Ph.: +91-124-4511111; Fax: +91-124-4588899;

Email: [info@artemishospitals.com](mailto:info@artemishospitals.com); Web site: [www.artemishospitals.com](http://www.artemishospitals.com)

CIN: L85110DL2004PLC126414

(₹ in Lakhs)

## EXTRACT OF CONSOLIDATED FINANCIAL RESULTS FOR THE QUARTER AND HALF YEAR ENDED SEPTEMBER 30, 2020

S. No.	Particulars	Quarter ended		Half Year ended		Year ended
		30-Sep-20	30-Sep-19	30-Sep-20	30-Sep-19	31-Mar-2020
		(Unaudited)	(Unaudited)	(Unaudited)	(Unaudited)	(Audited)
1.	Total Income from Operations	9,232.94	14,733.98	15,505.76	28,304.74	56,501.79
2.	Net Profit/(Loss) for the period (before Tax, Exceptional and/or Extraordinary Items)	(34.74)	912.72	(1,796.25)	1,578.49	3,062.91
3.	Net Profit/(Loss) for the period before tax (after Exceptional and/or Extraordinary Items)	(34.74)	912.72	(1,796.25)	1,578.49	3,062.91
4.	Net Profit/(Loss) for the period after tax (after Exceptional and/or Extraordinary Items)	2.61	538.20	(1,174.39)	964.80	1,946.01
5.	Total Comprehensive Income for the period [comprising Profit for the period (after tax) and Other Comprehensive Income (after tax)]	27.38	545.43	(1,157.66)	970.91	1,944.33
6.	Paid-up Equity Share Capital (Equity Shares of Rs.10/-each)	1,323.77	1,323.77	1,323.77	1,323.77	1,323.77
7.	Reserves (excluding Revaluation Reserve)	-	-	-	-	23,401.98
8.	Earning per Equity Share (Face value Rs.10/-each)					
	(a) Basic	0.11*	4.18*	-8.73*	7.45*	14.95
	(b) Diluted	0.11*	4.18*	-8.73*	7.45*	14.95
	(* Not annualised)					

## Notes:

The key standalone financial information of the Company is as under:

(₹ in Lakhs)

**ANNEXURE-17**

### PROJECT DETAILS AS PER CTE/CTO APPLICATION

Name Of Occupier : DEEPAK KUMAR AGARWAL  
Industry Id : WB0291697797  
Industry Name : BRAVO SPONGE IRON PVT. LTD.  
Industry Address : Vill-Mahuda, PO-Rukni, PS-Para, Dist-Purulia (WB)-723145  
  
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 : cmdsipl1@gmail.com  
Occupier Mobile : 9233331111  
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/125425/2015  
EC Grant Date : 2020-11-05  
EC File Number : J-11011/758/2009-IA-II I  
Authorthy : 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/125425/2015  
Registered Email Id: cmdsipl1@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-18**



# ENVIROCHECK

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



TC-6014

**FORMAT NO. ENV/FM/40**

## TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 21.02.2025 - 27.02.2025		
		Date of Issue	: 28.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Surface Water
Location	: Mahuda Village Pond	Sample Condition	: Sealed	Sample ID No.	: ENV/25/Feb./W/I
Report No.	: ENV/25/Feb./TR(W)/I/24-25				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	APHA 23 <sup>rd</sup> Ed., 4500 H*B : 2017	-	7.13
2.	Total Suspended Solids	APHA 23 <sup>rd</sup> Ed., 2540 D : 2017	mg/l	21.6
3.	Total Dissolved Solids	IS 3025 (Part 16) : 1984 : 2014	mg/l	326.0
4.	Dissolved Oxygen	APHA 23 <sup>rd</sup> Ed., 4500 - OC : 2017	mg/l	6.8
5.	COD	APHA 23 <sup>rd</sup> Ed., 5220 B/C/D : 2017	mg/l	29.04
6.	BOD [5 Day's at 20°C]	APHA 23 <sup>rd</sup> Ed., 5210 B : 2017	mg/l	6.0
7.	Oil & Grease	APHA 23 <sup>rd</sup> Ed., 5520 B/D/ : 2017	mg/l	<1.0
8.	Residual Chlorine	APHA 23 <sup>rd</sup> Ed., Cl-B : 2017	mg/l	<0.04
9.	Chloride	APHA 23 <sup>rd</sup> Ed., 4500 Cl-B/D : 2017	mg/l	17.24
10.	Iron	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	0.16
11.	Arsenic	APHA 23 <sup>rd</sup> Ed., 3114 B : 2017	mg/l	<0.01
12.	Lead	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.005
13.	Mercury	APHA 23 <sup>rd</sup> Ed., 3112 B : 2017	mg/l	<0.001
14.	Copper	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.04
15.	Zinc	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	0.18
16.	Total Chromium	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.02

**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 :**

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

**Authorised Signatory :**

Dr. AJOY PAUL  
Quality Manager

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Laboratory : 189, 190, 192, & 51, Rastraguru Avenue, Kolkata -700028  
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in  
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Port Blair ■ Noida



**FORMAT NO. ENV/FM/40**

## TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 06.02.2025		
		Period of Analysis	: 21.02.2025 - 27.02.2025		
		Date of Issue	: 28.02.2025		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Surface Water
Location	: Rukni Village Pond	Sample Condition	: Sealed	Sample ID No.	: ENV/25/Feb./W/II
Report No.	: ENV/25/Feb./TR(W)/II/24-25				

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	APHA 23 <sup>rd</sup> Ed., 4500 H*B : 2017	-	7.32
2.	Total Suspended Solids	APHA 23 <sup>rd</sup> Ed., 2540 D : 2017	mg/l	26.6
3.	Total Dissolved Solids	IS 3025 (Part 16) : 1984 : 2014	mg/l	368.0
4.	Dissolved Oxygen	APHA 23 <sup>rd</sup> Ed., 4500 - OC : 2017	mg/l	6.60
5.	COD	APHA 23 <sup>rd</sup> Ed., 5220 B/C/D : 2017	mg/l	27.10
6.	BOD [5 Day's at 20°C]	APHA 23 <sup>rd</sup> Ed., 5210 B : 2017	mg/l	4.0
7.	Oil & Grease	APHA 23 <sup>rd</sup> Ed., 5520 B/D/ : 2017	mg/l	<1.0
8.	Residual Chlorine	APHA 23 <sup>rd</sup> Ed., Cl-B : 2017	mg/l	<0.04
9.	Chloride	APHA 23 <sup>rd</sup> Ed., 4500 Cl-B/D : 2017	mg/l	14.52
10.	Iron	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	0.12
11.	Arsenic	APHA 23 <sup>rd</sup> Ed., 3114 B : 2017	mg/l	<0.01
12.	Lead	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.005
13.	Mercury	APHA 23 <sup>rd</sup> Ed., 3112 B : 2017	mg/l	<0.001
14.	Copper	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.04
15.	Zinc	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	0.19
16.	Total Chromium	APHA 23 <sup>rd</sup> Ed., 3111 B : 2017	mg/l	<0.02

**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 :**

INDRANI BHATTACHARYA  
Dy. Technical Manager, Chemical

**Authorised Signatory :**

Dr. AJAY PAUL  
Quality Manager

<End of Report>

**ANNEXURE-19**



# ENVIROCHECK

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



## TCLP REPORT

1.	Name of the Industry	:	Bravo Sponge Iron Pvt. Ltd.
2.	Address	:	Vill. – Mahuda, P.O. – Rukni, P.S. – Para, Purulia – 723145
3.	Date of sampling	:	06.02.2025
4.	Report No.	:	Env/1285A/S/M(i)/24-25
5.	Reporting date	:	28.02.2025
6.	Type of sample	:	Bed Ash
7.	Location	:	Near AFBC Boiler

## PARAMETERS (mg/lit.)

<u>Zn.</u>	<u>Cu</u>	<u>Ni</u>	<u>Pb</u>	<u>Cd</u>
4.60	3.50	0.82	0.16	0.10

Remarks : Result relates only to the sample tested.

Reviewed By :

DURBADAL CHAKRABORTY  
Dy. Quality Manager

Authorised Signatory :

Dr. AJJOY PAUL  
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



## 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	:	06.02.2025
4.	Report No.	:	Env/1285A/S/M(ii)/24-25
5.	Reporting date	:	28.02.2025
6.	Type of sample	:	SMS Slag
7.	Location	:	Near SMS Division

### PARAMETERS (mg/l.)

<u>Zn.</u>	<u>Cr.</u>	<u>Cu</u>	<u>Ni</u>	<u>Pb</u>	<u>Cd</u>
3.60	0.62	1.60	0.52	0.20	<0.002

*Remarks : Result relates only to the sample tested.*

Reviewed By :

DURBADAL CHAKRABORTY  
Dy. Quality Manager

Authorised Signatory :

Dr. AJOY PAUL  
Quality Manager

<End of Report>

