

Ref: -BSIPL/SMC/MoEFCC/APRIL-2022 TO SEPT-2022

Date: 15.12.2022

To,
The Inspector General of Forest (IGF)
GOI, MoEF&CC,
Integrated Regional Office, Kolkata
IB-198, Salt Lake City, Sector-III
Kolkata – 700106

**SUB: Six Monthly Compliance (April-2022 to Sept-2022) to Environmental Clearance conditions vide MoEF&CC
F. No. J-11011/758/2009-IA-II (I) Dated 05th November, 2020 by M/s Bravo Sponge Iron Pvt. Limited,
Vill-Mahuda, PO-Rukni. Dist- Purulia (WB)**

Dear Sir/Madam,

With reference to the subject, we are submitting herewith the six monthly compliance report (Period April-2022 to Sept-2022) 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, Government 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
15/12/22

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)

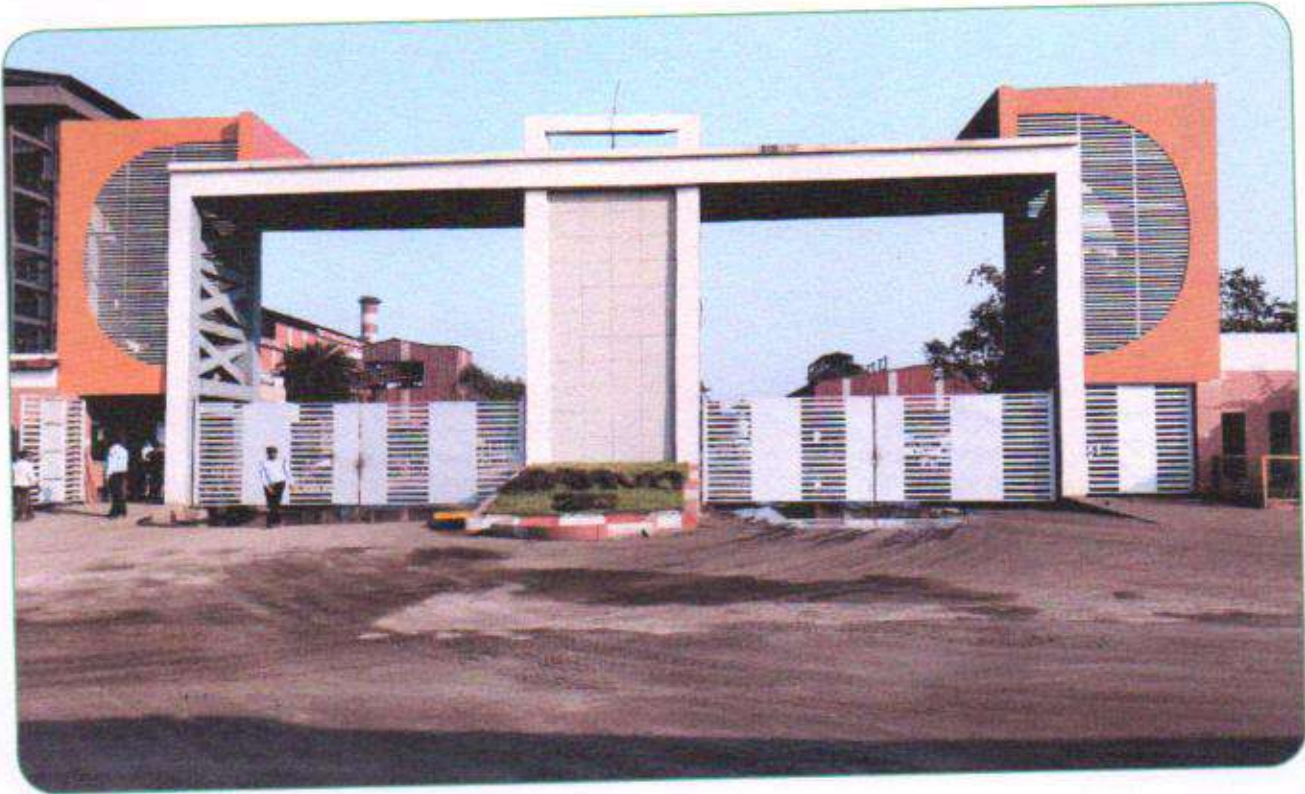


BRAVO SPONGE IRON PRIVATE LIMITED

COMPLIANCE STATUS OF ENVIRONMENTAL CLEARANCE

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

COMPLIANCE PERIOD: APRIL-2022 TO SEPTEMBER-2022



PROJECT LOCATION:

Village- Vill-Mahuda, PO-Rukni, PS-Para, Dist- Purulia (WB)



SIX MONTHLY COMPLIANCE REPORT

Name of the Project	: M/S BRAVO SPONGE IRON PVT. LIMITED Vill-Mahuda, PO-Rukni, PS-Para, Dist- Purulia (WB)
Environmental Clearance Letter Ref.	: F.No.: J-11011/758/2009-IA-II(I) dated 05 th November, 2020
Period of Compliance Report	: April-2022 to September-2022

S.N	Conditions	Compliance Status
A. Specific conditions		
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 used with input raw material for Pellet Plant
iii.	CPP shall meet all norms for PM, SO ₂ and NO _x emissions. CEMS shall be integrated with the plant control and the monitored data shall be used for process control.	OCEMS 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 used as fuel in Kiln /alternately sold to authorized re-processors approved by SPCB / CPCB.
v.	Only DVC water shall be used and abstraction of ground water is not permitted.	Noted. 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 pond has been developed within the plant premises for natural recharge of ground water. Further it will be enhanced with implementation of expansion project. The company is in the process adapting ponds in nearby areas for rain water harvesting and natural recharge. The company has developed 02 nos. pond in Kashiberia and Govindapur 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 shall be implemented as mentioned in the EIA/EMP report. Company has already deployed mobile water tanker for water sprinkling inside the plant also on village roads and the roads connecting to the plant. Hand pump for drinking water facility in village Solar lighting system in the village Mahuda & Kashiberia



S.N	Conditions	Compliance Status
		total 10 nos. Construction of health check-up Centre has been completed 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 villagers etc.
viii.	All roads inside the plant shall be paved, vacuum cleaners shall be provided to clean roads and shop floors.	Most of the internal roads in the existing plant area are concreted/ paved and concreting of roads in project area is under progress. Cleaning of the roads being done on regular basis. Some photographs of RCC roads are enclosed as Annexure-1
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 materials containing fine dust being covered with tarpaulin.
x.	40% green belt shall be provided using 2500 trees per ha around the plant boundary.	Company has already achieved the target of 33% green belt development by plantation of 13500 plants of different indigenous species covering 5.38 Ha area against previous EC. In the ongoing project area approx. 11500 trees have been planted so far covering 4.63 Ha land under the green belt/green cover development in and around the plant boundary.
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. The Rolling mill yet to be implemented.
xii.	Air cooled condensers shall be used.	Air cooled condenser is already installed with TG and shall also be implemented with balance project of CPP.
xiii.	PM emission from the stacks shall be less than 30mg/Nm ³ .	It shall be complied with under implementation and to be implemented projects. Existing projects complies with emission standards as stipulated in previous EC and West Bengal Pollution Control Board. Latest stack monitoring reports of existing running project are attached as Annexure-2
xiv.	Energy conservation measures like use of VFD, Slip power recovery etc. shall be adopted.	VFD has already provided at strategic 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. General conditions		
I.	Statutory compliance:	
i.	The Environment Clearance (EC) granted to the	Noted.



S.N	Conditions	Compliance Status
	<p>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.</p>	<p>Bravo Sponge Iron Pvt. Limited has obtained CTOs from West Bengal Pollution Control Board (WBPCB) for existing operating units and after getting EC vide F. No.: J-11011/758/2009-IA-II(I) dated 05th November, 2020, the CTE for proposed expansion projects. CTO for 1x0.85 MTPA Pellet Plant & 12x4000Nm³ PGP valid up to 31.12.2026 has also been obtained from WBPCB. Copy of CTE & CTOs attached as Annexure-3A & 3B</p>
II.	Air quality monitoring and preservation	
i.	<p>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.</p>	<p>Online Continuous Emission Monitoring System (OCEMS) have already been installed with stacks of DRI and AFBC Boiler and installed Pellet Plant-1 Stacks and monitored data being remitted to CPCB & SPCB through online server.</p> <p>Ambient Air Quality Monitoring (AAQM) being done periodically through NABL accredited agency.</p> <p>Latest Ambient Air Quality Monitoring reports are attached as Annexure-4</p>
ii.	<p>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.</p>	<p>Fugitive emissions in plant premises being monitored by NABL accredited laboratory on regular basis. Last work zone monitoring report is attached as Annexure-5</p>
iii.	<p>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.</p>	<p>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 the strategic 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.</p> <p>BSIPL have deployed mobile water tankers for dust suppression on the road and minimizing fugitive emissions.</p>
iv.	<p>The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.</p>	<p>Functioning of bag filters being monitored by suitably skilled manpower and observations noticed being promptly attended. Leakage detection and mechanized</p>



S.N	Conditions	Compliance Status
		bag cleaning facilities shall be provided for the bag filter units of upcoming projects.
v.	Recycle and reuse of iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/agglomeration.	It is being complied. Iron Ore fines collected from pollution control devices and ground level working platform being collected and used at 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.	Proper fume extraction system has been provided attached with bag filter and stack. Stack monitoring and work zone monitoring report is attached as Annexure-2 & 5
viii.	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Raw Material stock piles are being covered for providing proper wind shelter. Water sprinkling also being done to prevent fugitive emission due to wind pressure.
ix.	Design the ventilation system for adequate air changes as per prevailing norms for all tunnels, motor houses, Oil Cellars.	Suitable ventilation is provided for proper air circulation in such areas and shall also be provided for adequate air changes for all tunnels, motor houses, Oil Cellars with implementation of projects.
III. Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 (G.S.R 414 (E) dated 30 th May 2008; G.S.R 277 (E) dated 31 st March 2012 (applicable to IF/EAF); S.O. 3305 (E) dated 7 th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online services and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	Recycling and reuse practice is being followed for return cooling water. Back wash/reject water from softener plant being collected in neutralization tank and reused for dust suppression & bed ash cooling after maintaining 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. Last Effluent monitoring report analyzed by NABL accredited laboratory is enclosed as Annexure-6
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, hence there is no scope of affecting the ground water level due to industrial activities. Latest ground water monitoring report, sample taken from Mahuda village is attached as Annexure-7





S.N	Conditions	Compliance Status
iii.	Adhere to 'Zero Liquid Discharge'.	It is being complied. Recycle and re-use practice has been adapted and no industrial effluent being discharged outside the factory premises.
iv.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	At present for the treatment of domestic sewage effluent septic tank followed by soak pit facility has been provided. Sewage Treatment Plant shall be installed with implementation of the project.
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.	Stock piles are kept suitably covered with tarpaulin to check and prevent water contamination due to rain. Concreted raw material yard with garland drain has been constructed to check the water pollution due to surface run off.
IV. Noise monitoring and prevention		
i.	Noise quality shall be monitored as per the prescribed Noise Pollution (Regulation and Control) Rules, 2000 and report in this regard shall be 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 Annexure-8 & 9
V. Energy Conservation measures		
i.	Energy conservation measures may be adopted such as adoption of solar energy and provision of LED lights etc., to minimize the energy consumption.	Energy conservation measure has already been adapted by providing LED lights in the offices to minimization of energy consumption. Solar light have been installed in the plant village Mahuda & Kashiberia and in plant also under CER activity.
VI. Waste management		
i.	Used refractories shall be recycled as far as possible.	Noted. Efforts shall be done to recycle the refractories as far as possible.
ii.	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding in this regard shall be submitted to the Ministry's Regional Office.	It is being complied. The fly ash generated within the plant is provided to brick manufacturers for further utilization. Accordingly, company has made the agreement with various vendors for the same. Copies of the agreements are enclosed as Annexure-10
iii.	Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried and briquetted and reused in melting Furnaces.	Noted. It shall be complied with implementation of rolling mill project. Rolling mill project yet to be implemented.
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.



S.N	Conditions	Compliance Status
VII.	Green Belt	
i.	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	Company has already achieved the target of 33% green belt development by plantation of 13500 plants of different indigenous species covering 5.38 Ha area against previous EC. In the ongoing project area approx. 11500 trees have been planted so far covering 4.63 Ha land under the green belt/green cover development in and around the plant boundary. It shall be continued till plantation target achieved Post plantation work for nourishment of the plants being done on regular basis. Some photographs of plantation are attached as Annexure-11
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 shall be complied. We are preparing for existing operational units and shall be submitted with next compliance report.
VIII.	Public hearing and Human health issues	
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan has been prepared based on different kind of operation process and under execution. It shall also be implemented in forthcoming projects. Risk & Disaster Management Plan is attached as Annexure-12
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 shall be carried out as per direction.
iii.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained.	Occupational health surveillance program of the workers being under taken on regular basis and records are maintained. Last health surveillance report attached as Annexure-13
IX.	Corporate Environment Responsibility	
i.	The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA III dated 1 st May 2018, as applicable, regarding Corporate Environment Responsibility.	Environmental protection measures have been implemented for effective compliance recommended in EIA/EMP reports. 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



S.N	Conditions	Compliance Status
		<p>etc.) of nearby villages. School building in the village Kashiberiya is under progressive stage of construction, drinking water in nearby Mahuda village and renovation of village pond etc. Under enterprise social commitment providing jobs to the local people and contribution towards social causes etc. 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&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. BSIPL have also the Hierarchical system/ Administrative order to deal with environmental issues and compliance of EC conditions.</p> <div style="text-align: center;">  <pre> graph TD CMD[CMD] --> ED[ED - CORPORATE] ED --> HEMC[Head-Environment Management Cell] ED --> UH[Unit Head] HEMC --> Env[Environment] HEMC --> Health[Health] HEMC --> Safety[Safety] Env --> EO[Env. Officer / Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] UH --> OH[Operation Head] </pre> </div> <p>BSIPL have in placed reporting system for non-compliance/violation of environmental norms.</p> <div style="text-align: center;">  <pre> graph TD BD[Board of Directors] --> CMD[CMD] CMD --> ED[ED - CORPORATE] ED --> HEMC[Head-Environment Management Cell] ED --> UH[Unit Head] HEMC --> Env[Environment] HEMC --> Health[Health] HEMC --> Safety[Safety] Env --> EO[Env. Officer / Engg.] Health --> MO[Medical Officer] Safety --> SO[Safety Officer] UH --> OH[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 & pollution control issues of the company.</p>



S.N	Conditions	Compliance Status
X.	Miscellaneous	
i.	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it as least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	It has been complied Advertisement in newspaper has been done. Newspaper cuttings are attached as Annexure-14 Granted EC copy has been available as 'Environmental Orders' on the company website permanently http://shakambhariispat.com/environmental-orders
ii.	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Complied.
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	It is being complied. Compliance status being periodically uploaded on the company website http://shakambhariispat.com/environmental-compliance
iv.	The project proponent shall monitor the criteria pollutants level namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	It is being complied. Monitoring of criteria pollutants being carried out for PM ₁₀ , PM _{2.5} , SO ₂ , NO ₂ and stack monitoring for PM, SO ₂ , and NO _x . Latest Ambient Air Quality monitoring and stack monitoring reports are enclosed in Annexure-4 & 2
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. Previous year Environment Statement in Form-V has already been submitted to SPCB with a copy to MoEFCC Regional Office Kolkata and also uploaded on company's website. The environment statement of the ending financial year 31 st March, 2022 has been submitted in Form-V and compliance status displayed on the company's website as per direction. http://shakambhariispat.com/environmental-statement



S.N	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 closure is 17.11.2020 and land development work started w.e.f. 12.11.2020. Pellet Plant (1x0.85 MTPA) and PGP (12x4000Nm ³) has been implemented and under operation after taken CTO from WBPCB. Copy of CTE & CTO attached as Annexure-3A&3B . E-verification of the project status has been submitted on the link as asked by MoEFCC. E-verification copy attached as Annexure-15 .
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 center and operating with qualified medical staff, safety appliances to the workers, drinking water arrangements for the villagers as per requirement, solar lighting system on Kashiberia and Mahuda village has been implemented. Construction of school is under progress in Kashiberia village. Rain water 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 if found necessary. The Company in a time bound manner shall implement these conditions.	Noted. The company shall be abide with the stipulations and direction made by Hon'ble MoEFCC.
xiii.	The Regional Office of this Ministry shall	Noted. It shall be adhered.

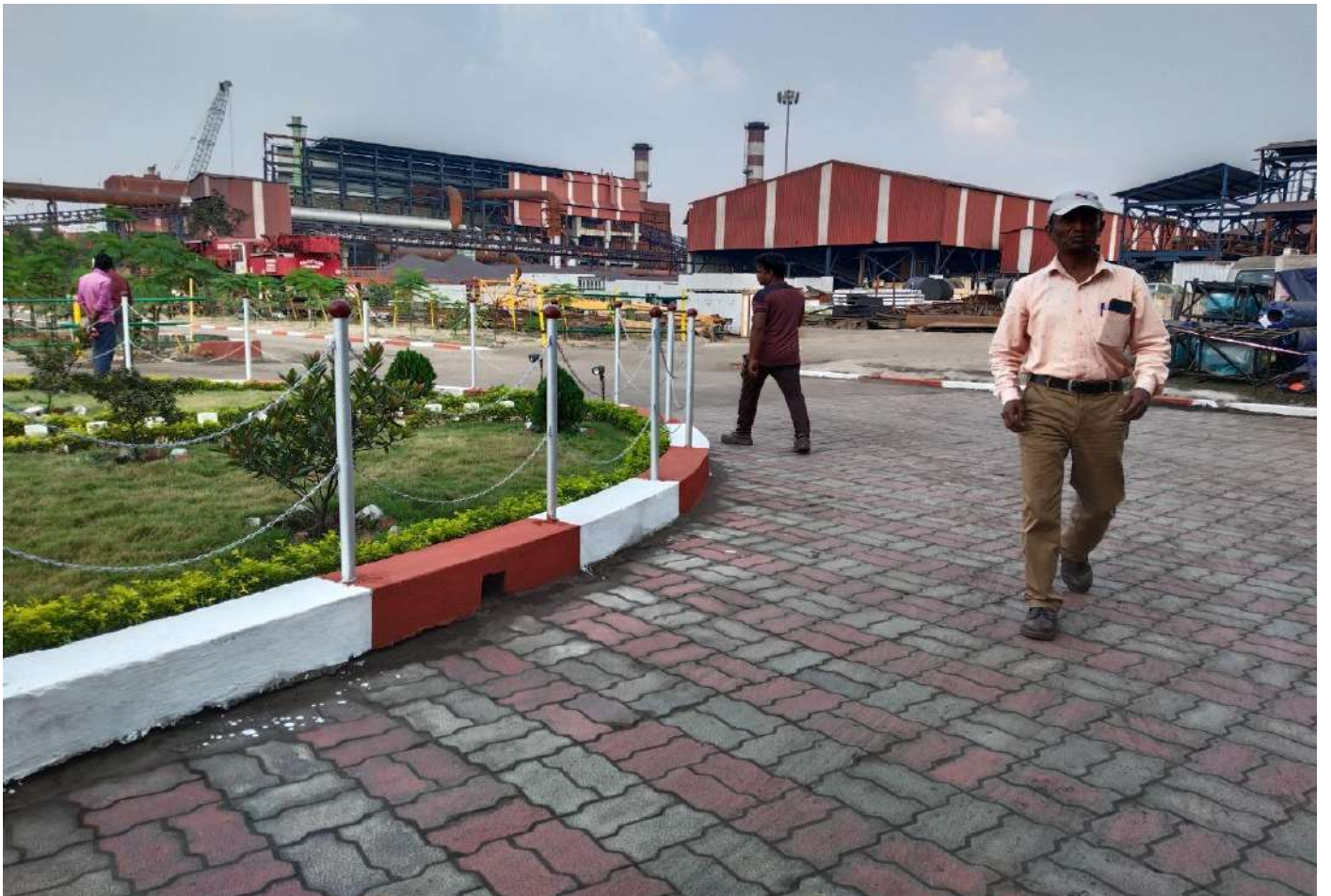


S.N	Conditions	Compliance Status
	monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	
xiv.	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.



Annexure-1

PHOTOGRAPHS OF RCC & PAVER BLOCKED ROADS



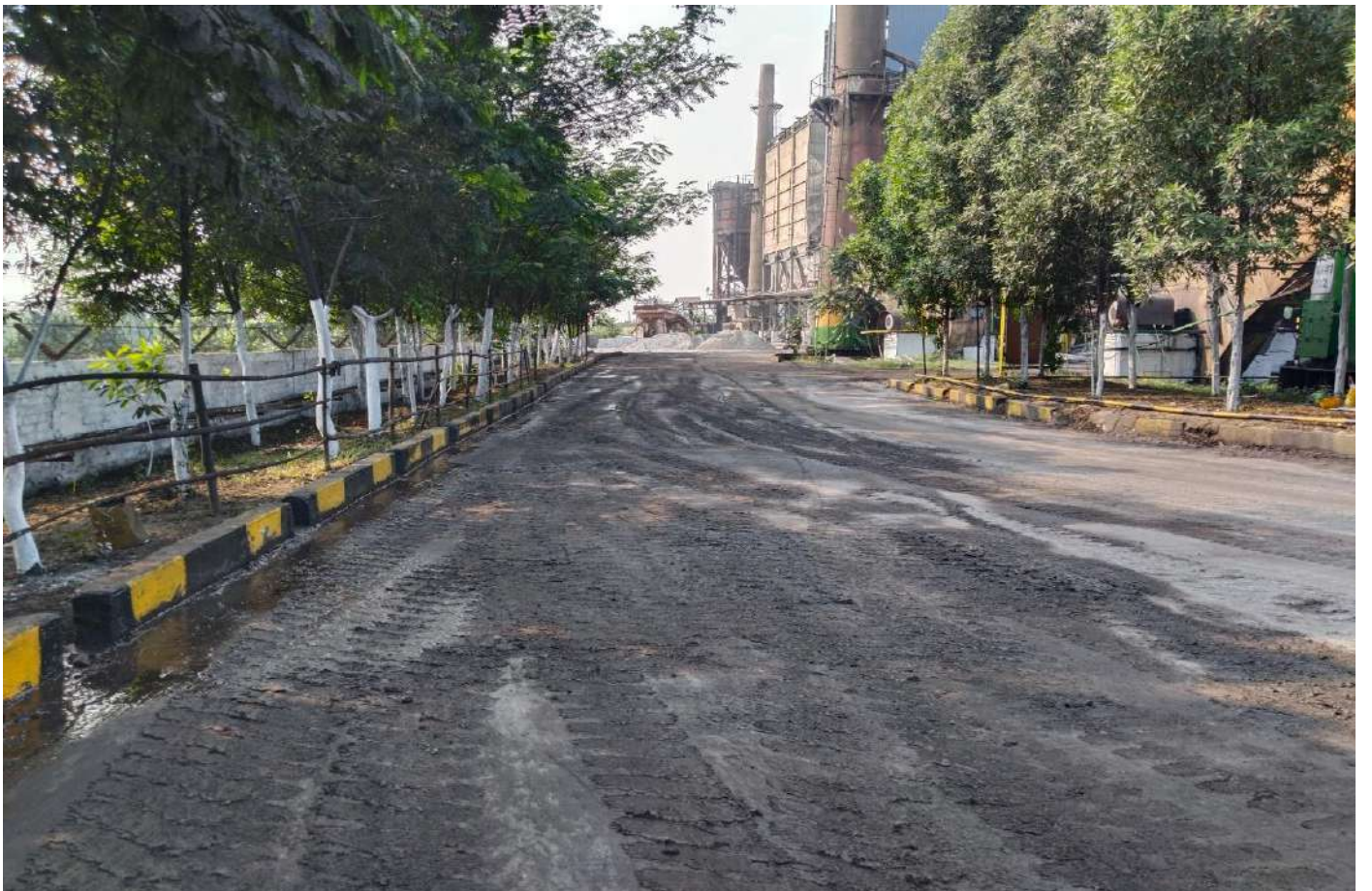
PHOTOGRAPHS OF RCC ROADS



PHOTOGRAPHS OF RCC ROADS



PHOTOGRAPHS OF RCC ROADS



Annexure-2



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/53/Sep./A/I	Report No.	: ENV/53/Sep./TR(A)/I/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

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

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 148.0
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 11.98
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 84136.77
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 609.69
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 10.8
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
8.	a) Concentration of Particulate Matter (at 10.8% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005):	: 23.87
	b) Concentration of Particulate Matter (at 12% CO ₂)		Sec. 11 (Vol. 3 11.07): 2011	: 26.52

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

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Sample ID No.	: ENV/53/Sep./A/II	Report No.	: ENV/53/Sep./TR(A)/II/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Rotary Kiln (No. 3 & 4) attached to common stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 30.0
Materials of Construction	: M.S.	Stack I.D. at sampling point (mtr.)	: 1.80
Capacity	: 100 TPD (each kiln)	Height of sampling port (mtr.) (from G.L.)	: 15.0
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 5.12 MT/hr. (each Kiln)		
Pollution Control Device	: E.S.P with W.H.R.B		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 164.4
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 11.09
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 67201.83
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 561.70
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 11.2
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
8.	a) Concentration of Particulate Matter (at 11.2% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) :	: 26.31
	b) Concentration of Particulate Matter (at 12% CO ₂)		Sec. 11 (Vol. 3 11.07) : 2011	: 28.19

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJAY PAUL
Quality Manager

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



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/53/Sep./A/III	Report No.	: ENV/53/Sep./TR(A)/III/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: AFBC Boiler	Height of Stack (mtr.) (from G. L.)	: 45.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 2.20
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 16.0
Capacity	: 20 TPH		
Emission Due to	: Oxidation of Coal & Reduction of Fe-Ore		
Fuel Used	: Coal&Dolochar	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Coal - 110 TPD&Dolochar - 130 TPD		
Pollution Control Device	: E.S.P with W.H.R.B		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 140.0
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 9.20
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 88432.37
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 317.51
6.	Concentration of NO _x (at 6% O ₂)	mg/Nm ³	IS : 11255 (Part 7) 2005 & ASTM D 1608-98 reapproved 2009 : Sec 11 (Vol. 11.07) : 2011	: 162.57
7.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 10.2
8.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
9.	a) Concentration of Particulate Matter (at 10.2% CO ₂)	mg/Nm ³		: 31.39
	b) Concentration of Particulate Matter (at 12% CO ₂)	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 36.78

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager

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 Overseas : UAE ■ Qatar ■ Netherlands



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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/53/Sep./A/V	Report No.	: ENV/53/Sep./TR(A)/V/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Fe-Ore Pallet Formation Stack		
Shape of Stack	: Circular	Height of Stack (mtr.) (from G. L.)	: 50.0
Materials of Construction	: Concrete	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 Furnace Oil		
Fuel Used	: Furnace Oil	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 80 liter./hr.		
Pollution Control Device	: E.S.P		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 109.6
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 11.83
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 232672.52
5.	Concentration of SO ₂ (at 6% O ₂)	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 309.58
6.	Concentration of CO ₂	% (v/v)	IS 13270 1992 RA 2003	: 9.2
7.	Concentration of CO	%(v/v)	IS 13270 1992 RA 2003	: <1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 24.61

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Stack Emission
Sample ID No.	: ENV/53/Sep./A/IV	Report No.	: ENV/53/Sep./TR(A)/IV/22-23		

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Hood Over 2 nos. Induction Furnace attached to 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.)	: --
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. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS 11255 (Part 1)	: 54.0
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS 11255 (Part 3)	: 8.76
4.	Quantity of Gas flow	Nm ³ /hr.	IS 11255 (Part III)	: 8071.9
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) 1985 RA 2003	: 26.35
6.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 15.63

Remarks : During monitoring both furnace were running.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJJOY PAUL
Quality Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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Annexure-3A

WEST BENGAL POLLUTION CONTROL BOARD



Paribesh Bhawan
10A, Block - LA, Sector III, Bidhannagar
Kolkata - 700 106

Memo No. 349-2N-117/2007(E)-Pt.

Dated 10.11.2020

From :
Member Secretary,
West Bengal Pollution Control Board

To: M/s. Bravo Sponge Iron Private Limited,
41, A, J, C, Bose Road, Diamond Prestige, 8th Floor, Room No. 801,
Kolkata - 700 017.

Sub: Consent to Establish (NOC) from Environmental Point of View

Ref: i) Your letter No. Nil Dated 09.11.2020
ii) Env. Clearance issued by MOEF vide P.No. J-11011/758/2009-IA-II(1) dtd. 05.11.2020.

WEST BENGAL

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Bravo Sponge Iron Private Limited for proposed expansion of existing steel plant by installation of pellet plant with grinding facility (2x0.85MTPA), sponge for manufacturing/storage/installation of iron plant (1x350TPD Kiln), Induction Furnaces (3x25T), Capacity revision from 600TPD to 1000TPD of rolling MILL along with 7MW capacity Captive power plant (WHRS based utilizing waste heat from the ~~proposed sponge plant~~) and Producer Gas Plant (12x4000Nm³/hr) at *

this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

* Vill-Mahuda, P.O. Rukhi, P.S.-Para, Dist.-Purdia, West Bengal.

The overall configuration of the plant after expansion will be as per**

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986. **** Annexure -I.**
2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.
3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.
4. All emission from your factory shall conform to the standards as laid down by this Board.
5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.
6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/erected/re-erected without prior approval of this Board.

7. You shall comply with
- (i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
 - (ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
 - (iii) Environment (Protection) Act, 1986
 - (iv) Environment (Protection) Rules, 1986
 - (v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
 - (vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
 - (vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
 - (viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
 - (ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
 - (x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
 - (xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
 - (xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable
8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

Total Capital Cost of the project - Rs.475 Crores.

please refer to Annexure - II

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully,

M. Mukherjee
10/11/2020
Member Secretary, / SR. ENV. ENGR.
West Bengal Pollution Control Board (CELL)
W. B. Pollution Control Board
Dept. of Environment, Govt. of West Bengal
Dated: 10.11.2020

Memo No. 349 - 2N-117/2007(E)-Pt.

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building, Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./

Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan

Delhi Road, Dankuni

Dist. Hooghly

Vill, Panpur

Kalyani Expressway

P.O. Narayanpur

Dist. 24 Pgs. (N)

Sahid Khudiram Sarani

City Centre, Durgapur-16

Dist. Burdwan

10, Camac Street

2nd Floor

Kolkata-700 017

Paribesh Bhawan

10A, LA-Block, Sector-III

Salt Lake City,

Kolkata - 700 098

Block-05 at 40

Flats Complex

Adjacent to Priyambada

Housing Estate

P.O. : Khanjanchak,

P.S. Durgachak

Haldia-721602

Dist. : Purba Medinipur

Paribahan Nagar

Matigara, Siliguri

Dist.-Darjeeling

Satya Chowdhury

Indoor Stadium

Balurchar Bandh Road

Malda-732101

Asansol Sub-Regional Office

ADDA Commercial Market (2nd Floor)


Opposite Asansol Fire Station

G.T. Road, Asansol-713 301

M. Mukherjee
10/11/2020
Member Secretary, / SR. ENV. ENGR.
West Bengal Pollution Control Board (CELL)
SR. Environmental Engineer

Annexure – I to the NOC Sl. No. NO164516

S.No	Unit	Units as per State Clearance	Units as per MoEF&CC EC dated 18.04.17	Total	Units under operation	Balance units		Proposed expansion	Final configuration
						Under implementation	To be implemented		
1	Pellet Plant with Grinding Facility	-	-	-	-	-	-	2 X 0.85 MTPA	1.7 MTPA
2	Sponge Iron Plant	1X100 TPD (as per NOC dated 5.12.2002) + 1x95 TPD (as per State EC dated 24.03.2008)	2X100 TPD	1X100 TPD + 1x95 TPD + 2X100 TPD	1X100 TPD + 1x95 TPD + 2X100 TPD	-	-	1 X 350 TPD	745 TPD (1X100 TPD + 1x95 TPD + 2X100 TPD + 1X350 TPD)
3	SMS (Induction Furnace with CCM)	-	600 TPD (4 x 15 T)	600 TPD (4 x 15 T)	300 TPD (2 x 15 T)	150 TPD (1 x 15 T)	150 TPD (1 X 15T)	750 TPD (3 x 25T)	1350 TPD (4 x 15 T + 3 x 25T)
4	Rolling Mill	-	600 TPD	600 TPD	-	-	600 TPD*	Capacity revision from approved 600 TPD* to 1000 TPD	1000 TPD
5	Captive Power Plant	-	18 MW (8 MW WHRB + 10 MW AFBC)	18 MW (8 MW WHRB + 10 MW AFBC)	10 MW (4x10 TPH WHRB + 1X20 TPH AFBC*)	-	8 MW (1X20 TPH Proposed AFBC + *Balance 12 TPH Steam from existing AFBC)	7 MW WHRB	25 MW (15 MW WHRB + 10 MW AFBC)
6	Producer Gas Plant	-	-	-	-	-	-	12 x 4000 Nm ³ /hr	48,000 Nm ³ /hr


 10/01/2020
 Sr. Environmental Engineer
 W. B. Pollution Control Board
 Dept. of Environment, GoWB

A) Emission Details :-

As per Annexure – I

1. The 95 TPD DRI unit shall be upgraded to 100 TPD with installation of 2MW WHRB.
2. Particulate emission from all stacks shall be less than 30mg/Nm³.
3. Stacks should have sampling port, platform and ladder as per the Emission Regulation Part-III of CPCB.
4. The project proponent shall install 24X7 continuous monitoring system in the process stacks to monitor stack emission and connected to SPCB and CPCB's servers.
5. All roads inside the plant shall be paved, vacuum cleaners shall be provided to clean roads and shop floors.
6. The project proponent shall install continuous ambient air quality monitoring system for monitoring in at least 4 locations covering upwind and downwind directions as directed by MoEF&CC and connected to SPCB and CPCB's servers.
7. Effective fugitive emission control measures should be imposed in the project. Water spray systems shall be included to control fugitive dust from RM Stockpiles.
8. All dust generated and collected from the plant roads, floors and bag houses/ESPs shall be recycled to Pellet Plant.
9. The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 should be complied with.
10. Dry fog system and water sprinklers to be installed to arrest fugitive emission.
11. De-dusting system like bag filters should be present in all areas of material handling, separation, product house, intermediate bins, transfer points etc.
12. 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.
13. Air cooled condensers shall be used.
14. Energy conservation measures like use of VFD, Slip power recovery etc. shall be adopted.

B) Effluent:-

- 1) Process effluent generated will be treated in appropriately designed Effluent Treatment Plant. The treated effluent to be utilized within the plant premises. Zero Discharge Principle should be strictly adhered to.
- 2) Tar and oil separator/skimmer should be provided in the Producer Gas Plant. The schemed Tar/Oil shall be stored separately and disposed off as per the Hazardous Wastes (Handling and Trans-boundary Movement) Rules, 2016 and its subsequent amendments. Phenolic waste water should be recycled.
- 3) Cooling water to be recycled.
- 4) Domestic effluent shall be treated in appropriately designed Sewage Treatment Plant and the discharge shall comply with the stipulated standards.

Annexure – II to NOC Sl. No. NO164516

Special conditions issued to M/s. Bravo Sponge Iron Pvt. Ltd. at Vill – Mahuda, PO – Rukni, PS – Para, Dist – Purulia, West Bengal (Expansion Project)

- 5) The project proponent shall install 24X7 continuous effluent monitoring system as directed by MoEF&CC.
- 6) 100 % water consumed annually shall be recharged through water harvesting. Detailed water harvesting plan should be implemented and submitted to the Regional Office of the Board.

C) Solid Waste :-

1. Fly ash to be sold to cement manufacturing units.
2. Dolo-char to be used in AFBC.
3. Bottom ash and slag from induction furnace to be used for land filling and road making.
4. Hazardous Waste to be collected and disposed of as per the Hazardous Wastes (Handling and Trans-boundary Movement) Rules, 2016 and its subsequent amendments.
5. The project proponent shall ensure 100% utilization of solid waste generated by the plant.
6. Dumping of wastes is permitted only at designated locations.

D) Greenbelt :-

1. 40 % green belt shall be provided using 2500 trees per ha around the plant boundary.

E) General :-

- 1) **All conditions laid down in the Environmental Clearance obtained for the expansion project from MoEF, GoI vide no. J-11011/758/2009-IA II (I) dated 05.11.2020 must be strictly followed.**
- 2) Noise Control – Ambient noise & D. G. Set noise level not to exceed the permissible limit.
- 3) No additional machinery / equipments can be installed without permission from this board.
- 3) Adequate arrangement for dust suppression in raw material handling section to be provided.
- 4) Rain water harvesting must be done however recharging of harvested rain water is not allowed under any circumstances.
- 5) The conveyor belt for transferring materials to day bins & skip hoist to be covered.
- 6) Good house-keeping to be maintained.
- 7) All requisite permissions / compliance / certificates / licenses from the Competent Authority shall be obtained.
- 8) Permission for extracting ground water must be obtained from the competent authority.
- 9) Project proponent should not undertake any activity on any portion of land which is not under their possession.
- 10) Monitoring of compliance of the Environmental Clearance conditions should be submitted with third party audit reports every year.
- 11) This NOC is valid up to **30.11.2027** for setting up the expansion project.

Maha
10/11/2020
Member Secretary/Sr. Environmental Engineer (EIM Cell)

West Bengal Pollution Control Board
Sr. Environmental Engineer

W. B. Pollution Control Board
Dept. of Environment, GoWB

Annexure-3B

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'

Bldg. No. - 10A, Block - LA, Sector-III

Salt Lake City, Kolkata-700 098



Consent Letter Number : @0131807

Memo Number : 894 - WPBA/Red (Pool)/Cont (135)/04
Part II

Date : 23/12/2021

Consent to Operate

under

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

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

M/s. Bravo Sponge Iron Pvt. Ltd.

WEST BENGAL

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

(hereinafter referred to as Applicant) for its unit located at vill - Mahuda, P.O. - Rukni,

P.S. - Para, Dist - Purulia, Pin - 723145

(Detailed address of the manufacturing unit)

for a period from 01.01.2022 to 31.12.2026

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

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

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



For and on behalf of the State Board

[Signature] 23.12.2021

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

ANNEXURE

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

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

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Sponge Iron	11500 Ton/month
02	M.S. Billet	7200 Ton/month
03	Captive Powers	10 MW
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed Nil KL.
04. Daily discharge of domestic liquid effluent shall not exceed 1'5 KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed Nil KL.
06. The Applicant shall discharge liquid effluent to septic tank to soak pit (place of discharge) through 01 (one) nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

[Signature] / 23.12.2021

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

Continued.....

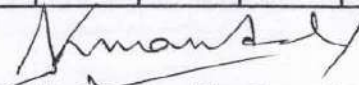
(4)

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

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

Table-II (see Annexure)

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

 23.12.2021
(Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.)

Continued.....

(5)

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

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

15. The Applicant shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	Coal	11600 Ton/month	DRI Kiln (1, 2, 3 & 4)
02	Coal fines	1100 Ton/month	AFBC Boilers
03	HSD	-	D.G. Set (2x500 kVA)
04	-	-	-
05	-	-	-

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

Type of waste	Quantity	Treatment	Disposal
Dalochan	2350 Ton/month	-	To be used in AFBC Boilers.
FLY ASH	5700 Ton/month	-	Brick/cement manufacturing & Lowland filling.
APCD Dust	600 Ton/month	-	To be used in Pellet Plant
EF Slag	970 Ton/month	-	To be used in land filling & road making

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

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 10 p.m.)	65
Night Time (10 p.m. to 06 a.m.)	55

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

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

Continued.....

Consent to M/s. Bravo Sponge Foam Pvt. Ltd.
 for its unit at vell - Mahuda, P.O. - Rukni, P.S. - Para, Dist - Purulia
Pin - 723145

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.
25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.
26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.
27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.
28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.
29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.
30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.
31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.
32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.
33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.
34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least ~~120~~ (sixty) days before the date of expiry of this Consent.
35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.
36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

1. This consent letter may be revoked at any time on the ground of valid public complaint regarding Hazards created by your unit.
 2. Conditions mentioned in the Environmental clearance issued by MOEF & CC vide no. J11011/758/2009-1A (i) dated 18/04/07 (Member Secretary/Chief Engr./ Sr. Env. Engr. / Env. Engr. / Asst. Env. Engr.) must be complied with.

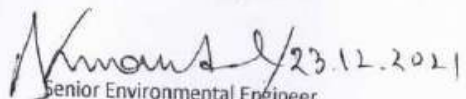
[Signature] / 23.12.202

Annexure-I

Annexure to Consent Letter Number : CO/31807

Additional conditions issued to M/s. **Bravo Sponge Iron Pvt Ltd.** located at Vill : Mahuda , P.O. Rukni,P.S.Para , Dist : Purulia , Pin : 723145.

Stack No.	Stack height from G.L. (in mtr)	Stack attached to (sources and control system, if any)	Volume (Nm ³ /hr)	Velocity of gas emission (m/sec)	Concentration of parameters not to exceed				Frequency of emission sampling
					PM (mg/Nm ³)	CO (% v/v)	-	-	
1	30.0	DRI Kiln 1 & 2 of capacity 100 TPD & 95 TPD with WHRB 1&2 provided with 3 field ESP and connected with common stack	-	-	100	1.0	-	-	Quarterly
2	30.0	DRI Kiln 3 & 4 of capacity 100 TPD each with WHRB 3&4 provided with 3 field ESP and connected with common stack	-	-	50	1.0	-	-	Quarterly
3	45.0	AFBC Boiler (1 x 20 TPH) provided with 3 field ESP and separate stack	-	-	50	1.0	-	-	Quarterly
4	30.0	Cooler Discharge (Common with DRI Kiln 1 & 2 provided with Bag filter and stack)	-	-	100	-	-	-	Quarterly
5	30.0	Cooler Discharge (Common with DRI Kiln 3 & 4 provided with Bag filter and stack)	-	-	50	-	-	-	Quarterly
6	30.0	Product House (Common with DRI Kiln 1 & 2 provided with Bag filter and stack)	-	-	100	-	-	-	Quarterly
7	30.0	Product House (Common with DRI Kiln 3 & 4 provided with Bag filter and stack)	-	-	50	-	-	-	Quarterly
8	30.0	Intermediate Bin (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter and separate stack	-	-	50	-	-	-	Quarterly
9	30.0	Coal screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter and separate stack	-	-	50	-	-	-	Quarterly
10	30.0	Iron Ore screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter and separate stack	-	-	50	-	-	-	Quarterly
11	30.0	Induction Furnaces (2 x 12 Ton/Heat each) provided with individual suction hood & spark arrestor followed by common Bag filter and stack for all Induction Furnaces & SEAFs.	-	-	50	-	-	-	Quarterly
12	9.0	1 x 500 KVA D.G. Set	-	-	150	1.0	-	-	Yearly
13	9.0	1 x 500 KVA D.G. Set	-	-	150	1.0	-	-	Yearly


 Senior Environmental Engineer
 West Bengal Pollution Control Board
 Asansol Regional Office



WEST BENGAL POLLUTION CONTROL BOARD

(Department of Environment, Government of West Bengal)

Asansol Regional Office

Kalyanpur Satellite Township Project (K.S.T.P)

Dr. B.C. Roy Road, Asansol, P.O.- Dakshin Dhadka,

Asansol – 713 302, Dist- Paschim Bardhaman.

Phone : (0341) 2999280/2999281

Memo No. **347**-WPBA/Red(Prl)/Cont(135)/04(Part II)

Date: **06**/05/2022

To

M/s. **Bravo Sponge Iron Pvt Ltd**
Vill- Mahuda , P.O.Rukni,P.S.Para,
Dist- Purulia , Pin- 723145.

Subject : Amendment of the 'Consent to Operate' no. CO131807 issued vide memo no. 894-WPBA/Red(Prl)/Cont(135)/04(Part II) dated 23/12/2021.

Reference : Your letter dated 02/05/2022.

Sir,

With reference to the above this is to inform you that the 'Consent to Operate' no. CO131807 issued vide memo no. 894-WPBA/Red (Prl)/Cont(135)/04(Part II) dated 23/12/2021 is hereby amended as follows :

In Annexure- I of the said Consent to Operate under Stack No. 4 & 5 of attached to "Cooler Discharge (common with DRI Kiln 1 & 2 provided with Bag filter and stack)" should be read as "Cooler Discharge (common with DRI Kiln 1, 2, 3 & 4 provided with Bag filter and stack)".

In Annexure - I of the said Consent to Operate under Stack No. 9 of attached to "Coal screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter and separate stack" should be read as "Coal screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter".

In Annexure - I of the said Consent to Operate under Stack No. 10 of attached to "Iron Ore screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter and separate stack" should be read as "Coal screening (Common with DRI Kiln 1,2,3 & 4) provided with Bag filter".

In Annexure - I of the said Consent to Operate under Stack No. 11 of attached to "Induction Furnaces (2 x 12 Ton/Heat each) provided with individual suction hood & spark arrestor followed by common Bag filter and stack for all Induction Furnaces & SEAFs" should be read as "Induction Furnaces (2 x 15 Ton/Heat each) provided with individual suction hood & spark arrestor followed by common Bag filter".

All other terms and conditions as mentioned in the "Consent to Operate" letter number **CO131807** dated 23/12/2021 will remain unchanged.

This letter may be treated as annexure of the aforesaid "Consent to Operate" letter (CO131807).

Your's faithfully

Senior Environmental Engineer
Asansol Regional Office.

"Expansion"
WEST BENGAL POLLUTION CONTROL BOARD

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



Consent Letter Number : CO132107

Memo Number : 294 - WPBA/Red(Pol)/cont(135)/04 Part-I

Date : 08/12/2021

Consent to Operate

under

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

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

M/s. Bravo Sponge Iron Pvt. Ltd.

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

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

(Detailed address of the manufacturing unit)

for a period from Date of issue to 31/12/2026

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

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

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



For and on behalf of the State Board

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

Mardi
08/12/21
Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

ANNEXURE

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

Conditions :

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

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	Iron Ore Pellet	8,50,000 MT/Year
02	Producer Gas.	48,000 Nm ³ /hr.
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The Applicant shall remain responsible for quantity and quality of liquid effluent and air emissions.
03. Daily discharge of industrial liquid effluent shall not exceed recycled KL.
04. Daily discharge of domestic liquid effluent shall not exceed 4 KL.
05. Daily discharge of mixed (industrial & domestic) liquid effluent shall not exceed Nil KL.
06. The Applicant shall discharge liquid effluent to Septic tank after treatment in STP (place of discharge) through 01 (one)nos. outlets / outfalls.
07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.
08. The Applicant shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the Standard as given in Table-I in page 03.

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

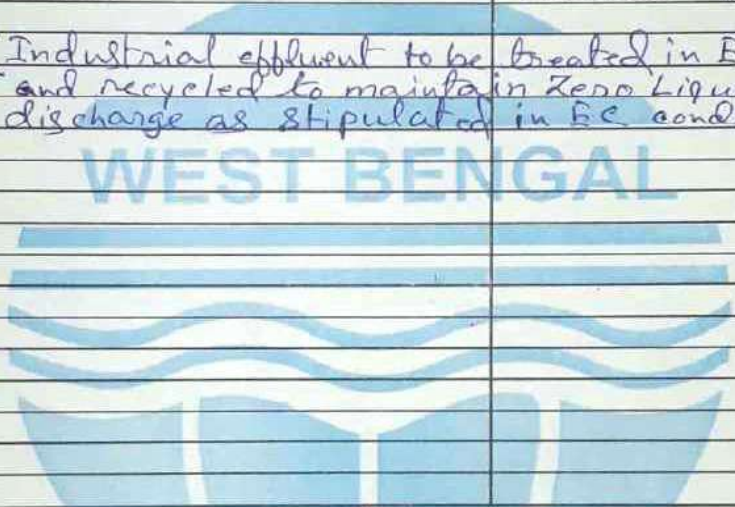
Hardi
08/12/21
 Sr. Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Continued.....

C0132107

Consent to ⁽³⁾ M/s. Bravo Sponge Iron Pvt. Ltd.
 for its unit at Vill: Mahuda, P.O. - Rukni, P.S. - Para, Dist - Purulia,
Pin - 723145

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Domestic	pH	Between: 5.5 to 9.0	Yearly
		Total Suspended Solids	Not to exceed: 100 mg/l.	
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed: 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed: 250 mg/l.	
		Oil & Grease	Not to exceed: 10 mg/l.	
(Industrial effluent to be treated in ETP and recycled to maintain Zero Liquid discharge as stipulated in EC conditions.) 				

09. The Applicant falls in the Red Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. Daily water consumption for the following purposes should not exceed :-

- Industrial cooling, spraying in mine pits and boiler feed water → 745 KL
 (Water used for gardening should be included in this category of use)
- Domestic purpose → 5 KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable → - KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable → - KL

The Applicant shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

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

Handi
08/12/21
 Sr. Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Continued.....

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

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

Table-II

Stack No.	Stack height from G.L. (in mts.)	Stack attached to (sources and control system, if any):	Volume Nm ³ /hr.	Velocity of gas emission m/sec	Concentrations of parameters not to exceed				Frequency of emission sampling
					SPM (mg/Nm ³)	CO (%v/v)			
S-1	50m	Pellet Plant (1x0.85MTPA) with cyclone			30	-			Half Yearly
S-2	42m	PCI Unit (6500MT/month) with Bag filter			30	-			Half Yearly
S-3	16.5m	01x500KVA D.G. Set			150	1			Yearly
S-4	17m	01x625KVA D.G. Set			150	1			Yearly
S-5									
S-6									
S-7									
S-8									
S-9									
S-10									

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

Haradi
08/12/25
Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Continued.....

CO132107

(5)

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

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

Sl. No	Type of fuel	Quantity consumed per day	Fuel burning operation where the fuel is used
01	HSD		D. G. Set.
02			
03			
04			
05			

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

Type of waste	Quantity	Treatment	Disposal
Pellet Plant Dust	3800 MT/month	—	reused in pellet plant
Tar from PGP	297 MT/month	—	reused as fuel DRI/ pellet plant

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

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to 09 ⁰⁰ p.m.)	75
Night Time (09 ⁰⁰ p.m. to 06 a.m.)	70

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

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

Handwritten: 08/12/21
 Sr. Environmental Engineer
 W. B. Pollution Control Board
 Operation & Execution Cell

Continued.....

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

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

Additional Conditions See Annexure.

Annexure to Consent Letter Number – **CO132107**

Additional Conditions issued to **M/s. Bravo Sponge Iron Pvt. Ltd.** at existing factory premises Vill- Mahuda, P.O-Rukni, P.S-Para, Dist-Purulia, Pin-723145.

1. The unit shall abide by all other condition as mentioned in Environmental Clearance (EC) issued vide no. J-11011/758/2009-1A-II(I) dated 05.11.2020 and NOC(NO164516) issued vide memo no.349-2N-117/2007 (E)-Pt dated 10.11.2020 in favour of the expansion project.
2. The unit should comply all the conditions issued in earlier Consent to Operate.
3. The unit should obtain all the statutory licenses as applicable from other concerned Govt. Department.
4. The unit shall maintain the stringent stack emission standard –PM 30 mg/Nm³.
5. The unit should install Continuous Ambient Air Quality Station(CAAQS) within 31st March,2022 failing which regulatory action will be initiated.
6. The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 should be complied with.
7. This consent may be revoked at any time on violation of environmental norms.
8. The unit shall submit a status of compliance of the conditions stipulated in EC.
9. This consent to Operate is valid for operation of Pellet Plant (1x0.85 MTPA) & Producer Gas Plant (12x4000 Nm³/hr).

Mardi
08/12/21
Sr. Environmental Engineer
West Bengal Pollution Control Board
Sr. Environmental Engineer
W. B. Pollution Control Board
Operation & Execution Cell

Annexure-4



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
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	: 09.09.2022 - 10.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/53/Sep./A/VI	Report No.	: ENV/53/Sep./TR(A)/VI/22-23		

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) : 27.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	55.95
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	91.50
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	16.48
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	36.19
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.42
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

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ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	: 09.09.2022 – 10.09.2022		
		Period of Analysis	: 12.09.2022 – 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/53/Sep./A/VII	Report No.	: ENV/53/Sep./TR(A)/VII/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Mohuda Village (0.5 km. from Plant) (Southern Side)
2. Duration of Sampling : 24 hrs. (09:30 a.m. – 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

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

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	44.42
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	71.77
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	11.85
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	28.52
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.20
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

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TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022 - 10.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/53/Sep./A/VIII	Report No.	: ENV/53/Sep./TR(A)/VIII/22-23		

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	56.29
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	89.10
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.83
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	32.43
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.23
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022 - 10.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ambient Air
Sample ID No.	: ENV/53/Sep./A/IX	Report No.	: ENV/53/Sep./TR(A)/IX/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Near Main Administrative Building (Eastern Side)
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 79.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Cloudy

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L : 2006	49.20
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	81.54
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.63
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	25.96
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.23
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

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Annexure-5



ENVIROCHECK

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TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/X	Report No.	: ENV/53/Sep./TR(A)/X/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Near Raw Materials Stock Yard
2. Duration of Sampling : 08 hrs. (10:10 a.m. - 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	386.56

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

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



TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Mohuda. P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 – 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/X	Report No.	: ENV/53/Sep./TR(A)/X/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Near Raw Materials Stock Yard
2. Duration of Sampling : 08 hrs. (10:10 a.m. – 06:10 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 72.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	12.50
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec 11 (Vol. 11.07) : 2011	31.82

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager



ENVIROCHECK

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TEST REPORT

FORMAT NO.: ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/XI	Report No.	: ENV/53/Sep./TR(A)/XI/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area
2. Duration of Sampling : 08 hrs. (10:20 a.m. - 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 74.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	289.0

Remarks :

Reviewed By :

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Dy. Quality Manager

Approved By :

Dr. AJAY PAUL
Quality Manager



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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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 – 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/XI	Report No.	: ENV/53/Sep./TR(A)/XI/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : Near AFBC Boiler Area
2. Duration of Sampling : 08 hrs. (10:20 a.m. – 06:20 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 32.0
2. Average Relative Humidity (%) : 74.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.22
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	32.50

Remarks :

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager



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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	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 12.09.2022		
		Date of Issue	: 14.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/XII	Report No.	: ENV/53/Sep./TR(A)/XII/22-23		

A] GENERAL INFORMATION

1. Location of Sampling : In between DRI - 1 & 2 and DRI - 3 & 4
2. Duration of Sampling : 08 hrs. (10:22 a.m. - 06:22 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULT

SL. NO.	PARAMETER	UNIT	METHOD NO.	RESULT
1.	Concentration of SPM	µg/m ³	NIOSH 0500 : 2005	362.86

Remarks :

Reviewed By :

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ENVIROCHECK

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TEST REPORT

FORMAT NO : ENV/FM/57

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit
Address	: Vill. - Mohuda. P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022
		Period of Analysis	: 12.09.2022 - 12.09.2022
		Date of Issue	: 14.09.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Work Zone Air
Sample ID No.	: ENV/53/Sep./A/XII	Report No.	: ENV/53/Sep./TR(A)/XII/22-23

A] GENERAL INFORMATION

1. Location of Sampling : In between DRI - 1 & 2 and DRI - 3 & 4
2. Duration of Sampling : 08 hrs. (10:22 a.m. - 06:22 p.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 33.0
2. Average Relative Humidity (%) : 76.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 Reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	18.20
2.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	34.12

Remarks :

Reviewed By :

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Annexure-6



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FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. – Mahuda, P.O. – Rukni, P.S. – Para, Purulia – 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 – 16.09.2022		
		Date of Issue	: 19.09.2022		
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 Inlet	Sample ID No.	: ENV/09/Sep./W/M/I	Report No.	: ENV/09/Sep./TR(W)/M/I/22 - 23

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500H+B APHA 23 rd Edition, 2017	-	5.23
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	140.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	12.4
4.	Chemical Oxygen Demand	5200B/C/D APHA 23 rd Edition, 2017	mg/l	196.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 B APHA 23 rd Edition, 2017	mg/l	<2.0

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



ENVIROCHECK

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



FORMAT NO. ENV/FM/40

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 16.09.2022		
		Date of Issue	: 19.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Industrial Effluent Water (Grab)
Location	: E.T.P Outlet	Sample ID No.	: ENV/09/Sep./W/M/II	Report No.	: ENV/09/Sep./TR(W)/M/II /22 - 23

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS
1.	pH	4500H+B APHA 23 rd Edition, 2017	-	6.82
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	30.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	5.0
4.	Chemical Oxygen Demand	5200B/C/D APHA 23 rd Edition, 2017	mg/l	71.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 B APHA 23 rd Edition, 2017	mg/l	<2.0

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

Dr. AJOY PAUL
Quality Manager

Annexure-7



ENVIROCHECK

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



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 17.09.2022		
		Date of Issue	: 19.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Mohuda Village Tubewell	Sample ID No.	: ENV/614/Sep./W/ M	Report No.	: ENV/614/March/TR(W)/M/ 22-23

PARAMETERS		METHOD	UNIT	RESULTS
1.	Colour	APHA 23 rd Ed., 3111 B : 2017	--	1.0
2.	Odour	APHA 23 rd Ed., 2150 B : 2017	--	Odourless
3.	pH	APHA 23 rd Ed., 4500 - H+B : 2017	--	6.80
4.	Taste	APHA 23 rd Ed., 2160 B : 2017	--	Acceptable
5.	Turbidity	APHA 23 rd Ed., 2130 B : 2047	NTU	1.20
6.	Total Dissolved Solids	APHA 23 rd Ed., 2540 B : 2017	mg./l	790.0
7.	Calcium	APHA 23 rd Ed., 3500 Ca-B : 2017	mg./l	81.4
8.	Chloride	APHA 23 rd Ed., 4500 Cl-B/D : 2017	mg./l	77.8
9.	Iron	APHA 23 rd Ed., 3111 B : 2017	mg./l	0.72
10.	Magnesium	APHA 23 rd Ed., 3500 Mg-B : 2017	mg./l	18.1
11.	Nitrate	APHA 23 rd Ed., NO ₃ -E : 2017	mg./l	4.2
12.	Sulphate	APHA 23 rd Ed., 4500 SO ₄ -E : 2017	mg./l	67.4
13.	Total Alkalinity	APHA 23 rd Ed., 2320 B : 2017	mg./l	300.0
14.	Total Hardness	APHA 23 rd Ed., 2340 C : 2017	mg./l	278.0
15.	Arsenic	IS 3025 (Part 37) : 1988 : 2014	mg./l	<0.01
16.	Chromium	APHA 23 rd Ed., 3111 Cr-B : 2017	mg./l	<0.02
17.	Boron	APHA 23 rd Ed., 4500 B-C : 2017	mg./l	<0.1

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Bravo Sponge Iron Pvt. Ltd.	Type of Industry	: Steel & Power Unit		
Address	: Vill. - Mahuda, P.O. - Rukni, P.S. - Para, Purulia - 723145	Sampling Date	: 09.09.2022		
		Period of Analysis	: 12.09.2022 - 19.09.2022		
		Date of Issue	: 19.09.2022		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Ground Water
Location	: Mohuda Village Tubewell	Sample ID No.	: ENV/614/Sep./W/ M	Report No.	: ENV/614/March/TR(W)/M/ 22-23

	<u>PARAMETERS</u>	<u>METHOD</u>	<u>UNIT</u>	<u>RESULTS</u>
1.	Total Coliform	9222 B, APHA 23 rd , 2017	CFU/100 ml.	<1.0
2.	E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0

Remarks : a) CFU indicates Colony Forming Unit.

b) <1.0 indicates "Absent" No Colony Developed i.e. No Coliform Found.

Reviewed By :

DURBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

PRIYANKA MUKHERJEE
Technical Manager, Microbiology

Annexure-8



ENVIROCHECK

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



NOISE MONITORING REPORT

Bravo Sponge Iron Pvt. Ltd.

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

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/211/M/(TR)N/I/2022-2023

Sampling Locations :	Near Security Gate – Western Side	Date of Study :	09/9/2022
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L_{min}	L_{max}	L_{eq}	Day time L_{eq}
6:00 AM to 7:00 AM	60.4	66.3	64.28	65.39
7:00 AM to 8:00 AM	62.3	64.8	63.73	
8:00 AM to 9:00 AM	66.3	70.2	68.67	
9:00 AM to 10:00 AM	64.5	69.6	67.98	
10:00 AM to 11:00 AM	60.2	64.8	63.89	
11:00 AM to 12:00 PM	65.6	68.4	66.91	
12:00 PM to 1:00 PM	63.1	68.2	66.15	
1:00 PM to 2:00 PM	60.2	66.6	63.67	
2:00 PM to 3:00 PM	60.4	63.7	62.78	
3:00 PM to 4:00 PM	62.3	64.5	63.90	
4:00 PM to 5:00 PM	63.4	66.1	64.89	
5:00 PM to 6:00 PM	65.9	69.2	67.12	
6:00 PM to 7:00 PM	62.5	68.1	66.15	
7:00 PM to 8:00 PM	60.2	66.3	63.03	
8:00 PM to 9:00 PM	60.0	64.8	64.24	
9:00 PM to 10:00 PM	59.8	63.2	61.82	

Date of Study :	09/09/2022 to 10/09/2022	Night time :	10 PM to 6 AM
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Time(hrs.)	L_{min}	L_{max}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	58.2	60.5	59.50	60.94
11:00 PM to 12:00 AM	57.4	59.1	58.33	
12:00 AM to 1:00 AM	57.4	59.2	58.28	
1:00 AM to 2:00 AM	55.1	58.6	56.86	
2:00 AM to 3:00 AM	50.3	55.8	53.78	
3:00 AM to 4:00 AM	52.5	58.4	56.38	
4:00 AM to 5:00 AM	61.6	65.9	64.26	
5:00 AM to 6:00 AM	62.3	67.8	65.87	

L_{min} : Minimum Noise level

L_{max} : Maximum Noise level

L_{eq} : Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2022



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

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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/211/M/(TR)N/II/2022-2023

Sampling Locations :	Mohuda Village (0.5 KM from Plant) – Southern Side	Date of Study :	09/9/2022
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L_{min}	L_{max}	L_{eq}	Day time L_{eq}
6:00 AM to 7:00 AM	47.5	50.2	49.06	51.85
7:00 AM to 8:00 AM	48.1	51.9	50.40	
8:00 AM to 9:00 AM	49.2	54.6	52.69	
9:00 AM to 10:00 AM	48.3	51.6	50.26	
10:00 AM to 11:00 AM	50.6	53.7	52.42	
11:00 AM to 12:00 PM	53.8	55.9	54.98	
12:00 PM to 1:00 PM	52.3	54.7	53.66	
1:00 PM to 2:00 PM	51.6	54.8	53.49	
2:00 PM to 3:00 PM	53.8	55.1	54.50	
3:00 PM to 4:00 PM	52.9	54.3	53.66	
4:00 PM to 5:00 PM	51.6	53.8	52.84	
5:00 PM to 6:00 PM	48.6	50.1	49.41	
6:00 PM to 7:00 PM	49.9	50.2	50.05	
7:00 PM to 8:00 PM	46.3	49.8	48.39	
8:00 PM to 9:00 PM	43.1	46.2	44.92	
9:00 PM to 10:00 PM	42.5	45.9	44.52	

Date of Study :	09/09/2022 to 10/09/2022	Night time :	10 PM to 6 AM
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Time(hrs.)	L_{min}	L_{max}	L_{eq}	Night time L_{eq}
10:00 PM to 11:00 PM	41.5	44.3	43.12	44.40
11:00 PM to 12:00 AM	40.3	43.9	42.46	
12:00 AM to 1:00 AM	39.9	41.6	40.83	
1:00 AM to 2:00 AM	38.3	40.1	39.29	
2:00 AM to 3:00 AM	40.7	43.2	42.13	
3:00 AM to 4:00 AM	41.6	45.9	44.26	
4:00 AM to 5:00 AM	44.9	48.3	46.92	
5:00 AM to 6:00 AM	45.3	50.2	48.41	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2022

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



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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/211/M/(TR)N/III/2022-2023

Sampling Locations :	Near Railway Siding Area – Northern Side	Date of Study :	09/9/2022
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	58.1	61.3	59.99	63.87
7:00 AM to 8:00 AM	59.3	62.5	61.19	
8:00 AM to 9:00 AM	60.6	63.2	62.09	
9:00 AM to 10:00 AM	61.9	64.8	63.59	
10:00 AM to 11:00 AM	62.3	65.1	63.92	
11:00 AM to 12:00 PM	63.8	66.7	65.49	
12:00 PM to 1:00 PM	64.6	67.5	66.29	
1:00 PM to 2:00 PM	61.8	64.7	63.45	
2:00 PM to 3:00 PM	60.7	62.3	61.48	
3:00 PM to 4:00 PM	61.8	62.9	62.56	
4:00 PM to 5:00 PM	60.7	67.7	65.90	
5:00 PM to 6:00 PM	62.8	66.2	64.15	
6:00 PM to 7:00 PM	63.8	67.3	65.10	
7:00 PM to 8:00 PM	62.3	67.1	63.90	
8:00 PM to 9:00 PM	61.9	66.3	64.78	
9:00 PM to 10:00 PM	60.6	64.3	62.83	

Date of Study :	09/09/2022 to 10/09/2022	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	51.3	57.5	55.42	55.33
11:00 PM to 12:00 AM	50.2	56.9	54.73	
12:00 AM to 1:00 AM	49.9	55.1	53.24	
1:00 AM to 2:00 AM	48.6	54.8	52.72	
2:00 AM to 3:00 AM	43.4	52.6	50.08	
3:00 AM to 4:00 AM	53.8	55.4	54.67	
4:00 AM to 5:00 AM	54.3	59.5	57.64	
5:00 AM to 6:00 AM	55.7	60.2	58.51	

L_{min} : Minimum Noise level

L_{max} :Maximum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2022



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

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

Bravo Sponge Iron Pvt. Ltd.

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

MONITORED BY :

ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

Report No : ENV/211/M/(TR)N/IV/2022-2023

Sampling Locations :	Near Main Administrative Building – Eastern Side	Date of Study :	09/9/2022
Category :	Integrated Steel Plant	Day time :	6 AM to 10 PM

Time (hrs.)	L _{min}	L _{max}	L _{eq}	Day time L _{eq}
6:00 AM to 7:00 AM	60.2	66.3	64.24	65.20
7:00 AM to 8:00 AM	61.5	67.9	65.79	
8:00 AM to 9:00 AM	62.8	68.6	66.60	
9:00 AM to 10:00 AM	63.5	69.2	67.22	
10:00 AM to 11:00 AM	62.6	65.7	63.91	
11:00 AM to 12:00 PM	64.2	68.6	66.90	
12:00 PM to 1:00 PM	64.7	69.1	67.78	
1:00 PM to 2:00 PM	62.5	70.9	64.80	
2:00 PM to 3:00 PM	63.7	68.5	65.35	
3:00 PM to 4:00 PM	60.2	65.6	63.68	
4:00 PM to 5:00 PM	64.1	67.9	65.65	
5:00 PM to 6:00 PM	60.7	68.1	65.89	
6:00 PM to 7:00 PM	60.7	65.7	63.91	
7:00 PM to 8:00 PM	61.6	64.2	63.09	
8:00 PM to 9:00 PM	60.2	62.8	61.65	
9:00 PM to 10:00 PM	59.4	60.4	59.93	

Date of Study :	09/09/2022 to 10/09/2022	Night time :	10 PM to 6 AM
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Time(hrs.)	L _{min}	L _{max}	L _{eq}	Night time L _{eq}
10:00 PM to 11:00 PM	52.3	56.4	54.82	57.55
11:00 PM to 12:00 AM	49.4	51.3	50.45	
12:00 AM to 1:00 AM	41.6	49.4	47.06	
1:00 AM to 2:00 AM	40.3	50.6	47.98	
2:00 AM to 3:00 AM	52.1	58.4	55.89	
3:00 AM to 4:00 AM	51.7	53.5	52.71	
4:00 AM to 5:00 AM	60.6	62.8	61.84	
5:00 AM to 6:00 AM	61.4	63.9	62.83	

L_{min} : Minimum Noise level

L_{eq} :Equivalent sound energy

Compiled by : (Signature)
Dr. Ajoy Paul

Envirocheck Seal
Date : 12/09/2022

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



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Annexure-9



ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001 : 2015 & OHSAS 18001:2007



FORMAT NO. : ENV/FM/56

TEST REPORT

1.	Name of the Industry / Project	: Bravo Sponge Iron Pvt. Ltd.
2.	Address	: Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	: Integrated Steel Plant
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/211/M/(TR)N/I/22-23
8.	Date of Study	: 09/09/2022
9.	Reporting Date	: 12/09/2022
10.	Method No.	: IS: 9989 - 1981
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	Mr. Sujoy Dasgupta

RESULT OF NOISE LEVEL STUDY

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


DAY TIME

1. Location : Coal Shed Area (RM Handling Section)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	62.8	68.6	66.60	East Side
02.	dB(A)	61.9	64.6	63.46	West Side
03.	dB(A)	64.4	70.2	68.20	North Side
04.	dB(A)	63.8	71.4	69.26	South Side
Average dB(A) Leq				66.88	

Reviewed By:

Approved By:


Dy. Quality Manager


Quality Manager

>End of Report<



ENVIROCHECK

Recognised by MoEF&CC, WBPCB, JSPCB & OSPCB
Accredited by NABL (ISO/IEC 17025:2017)
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FORMAT NO. : ENV/FM/58

TEST REPORT

1.	Name of the Industry / Project	: Bravo Sponge Iron Pvt. Ltd.
2.	Address	: Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	: Integrated Steel Plant
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/211/M/(TR)N/II/22-23
8.	Date of Study	: 09/09/2022
9.	Reporting Date	: 12/09/2022
10.	Method No.	: IS: 9989 - 1981
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	Mr. Sujoy Dasgupta

RESULT OF NOISE LEVEL STUDY

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

DAY TIME

2. Location : In-between Rotary Kiln - 1,2 & 3,4 (DRI)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	68.2	72.5	70.86	East Side
02.	dB(A)	71.6	74.4	73.22	West Side
03.	dB(A)	70.8	73.3	72.23	North Side
04.	dB(A)	71.5	73.7	72.74	South Side
Average dB(A) Leq				72.26	

Reviewed By:

Approved By:

Jelanta
Dy. Quality Manager

Rahul
Quality Manager

>End of Report<



ENVIROCHECK

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



FORMAT NO. : ENV/FM/58

TEST REPORT

1.	Name of the Industry / Project	: Bravo Sponge Iron Pvt. Ltd.
2.	Address	: Vill. - Mahuda, P.O - Rukni, P.S - Para, District - Purulia, Pin - 723145
3.	Type of Industry	: Integrated Steel Plant
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Work Zone Noise
7.	Sample ID	: ENV/211/M/(TR)N/III/22-23
8.	Date of Study	: 09/09/2022
9.	Reporting Date	: 12/09/2022
10.	Method No.	: IS: 9989 - 1981
11.	Time of Duration of Noise	: 20 Minutes
12.	Height from Ground Level	: 4 feet
13.	Sample Monitoring by	Mr. Sujoy Dasgupta

RESULT OF NOISE LEVEL STUDY

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

DAY TIME

3. Location : Near Induction Furnace Area (SMS)

Sl. No.	Unit	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	Remarks
01.	dB(A)	65.6	72.8	70.55	East Side
02.	dB(A)	64.5	73.8	71.27	West Side
03.	dB(A)	68.7	73.9	72.04	North Side
04.	dB(A)	68.2	73.8	71.85	South Side
Average dB(A) Leq				71.42	

Reviewed By:

Dy. Quality Manager

Approved By:

Quality Manager

>End of Report<

Annexure-10



भारतीय गैर न्यायिक
भारत INDIA

रु. 500



FIVE HUNDRED
RUPEES

पाँच सौ रुपये

Rs. 500

सत्यमेव जयते

INDIA NON JUDICIAL

पश्चिम बंगाल पश्चिम बंगाल WEST BENGAL

E 505045

AN AGREEMENT BETWEEN PURCHASER AND SUPPLIER

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

BETWEEN

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

AND

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

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

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

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


1. That the Agreement shall come into force immediately and shall remain valid for a period of 8 years w. e. f. The date of agreement.

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

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

Supplier
Bravo Sponge Iron Pvt. Ltd.

1. Authorized Signatory

PURCHASER

2. Proprietor

DRISHTI FIRE BRICKS



Tel. No. : 0341 - 5520414
Mob. No. : 094341-00786
094341-72721, 9832148158

MANUFACTURERS OF HIGH QUALITY REFRACTORIES

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

Ref. No. 01/16-17/BRAVO

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 **Innanpur, 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, 1965.

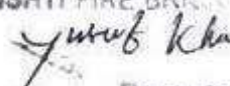
In witness thereof the parties here to have executed this above written on the first day of April' 2016

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

Annexure-11

PLANTATION WITH INDIGINIOUS SPECIES



PLANTATION WITH INDIGINIOUS SPECIES




PLANTATION WITH INDIGINIOUS SPECIES




PLANTATION WITH INDIGINIOUS SPECIES



Annexure-12

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 1
	Risk and Disaster Management Plan	

SL No.	Descriptions	Page No.
1	Introduction	2
2	Organizational Structure	3
3	Manpower and working shift	4
4	Nature of Hazards	4
5	Process Description	5
6	Inventory of Raw Material and Hazardous Waste	7-8
7	Onsite Emergency Plan	8
8	Identification of Hazards	9
9	Key persons and their role	11
10	Action Plan for Risk & Disaster Management	14
11	Facilities for on-site emergency plan	17
12	Disaster Management Plan (DMP)	19
13	Emergency Command Structure	21
14	Emergency Contact Numbers	22

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 2
	Risk and Disaster Management Plan	

Introduction:

The project site of M/s Bravo Sponge Iron Pvt. Limited (BSIPL) is located at Village-Mahuda, PO-Rukni, District-Purulia in the state of West Bengal having Latitude: 23° 32' 53.25" N & Longitude: 86° 32' 49.45" E.

Project site of BSIPL is well connected by road and rail. The nearest railway station is Rukni which about 1 km from project site.

The last two decades have seen many technological innovations that have contributed to automated, more reliable and cost effective safety management techniques, equipment and systems. Responsiveness & competence needs to be created among the Indian industry about tools & methodologies of safety techniques to understand and mitigate the hazards they are dealing with on a day-to-day basis, and create a safe working environment, for its own machinery, employees and community around. The code of practice on safety management system will be very useful for engineering industries in order to eliminate hazards and for providing safe work environment to employees.

The safety and protection of people, equipment's and the environment is a serious concern in the Engineering industries. Many industries have recognized the advantages of Safe Work Environment and are progressively adopting Safety Management System to prevent hazardous events, avoid production & manpower losses and other fallouts associated with industrial accidents. Safety management system also assists industries to enhance employee knowledge of operations, improve technical procedures, maintain accurate process safety information and increase overall facility productivity.

GENERAL INFORMATION ABOUT THE FACTORY:

M/s. Bravo Sponge Iron Private Limited (BSIPL) Ltd. was originally incorporated on 14th February 1997 and started making sponge iron since 2003. In June 2015 it has been taken over by Shakambhari Group who is having a vast experience in the line of steel manufacturing.

Presently, the company is having following facilities in operation:

- 3 x 100 TPD DRI kilns
- 1 x 95 TPD DRI Kiln
- 2 x 15 T Induction Furnace with CCM
- 10 MW capacity power Plant
- 1 x 0.8 MTPA Pellet plant with grinding facility.
- 6 x 4000 Nm³ Producer Gas Plant

Following projects are under implementation:

- 1 x 0.8 MTPA Pellet Plant
- 1 x 350 TPD DRI Kiln with WHRB
- 6 x 4000 Nm³ Producer Gas Plant
- 13.9 MW Capacity power plant

Further following facilities are to be implemented in due course of time;

- 2 x 15 T + 3 x 25 T Induction Furnaces with CCM
- 1000 TPD Rolling Mill

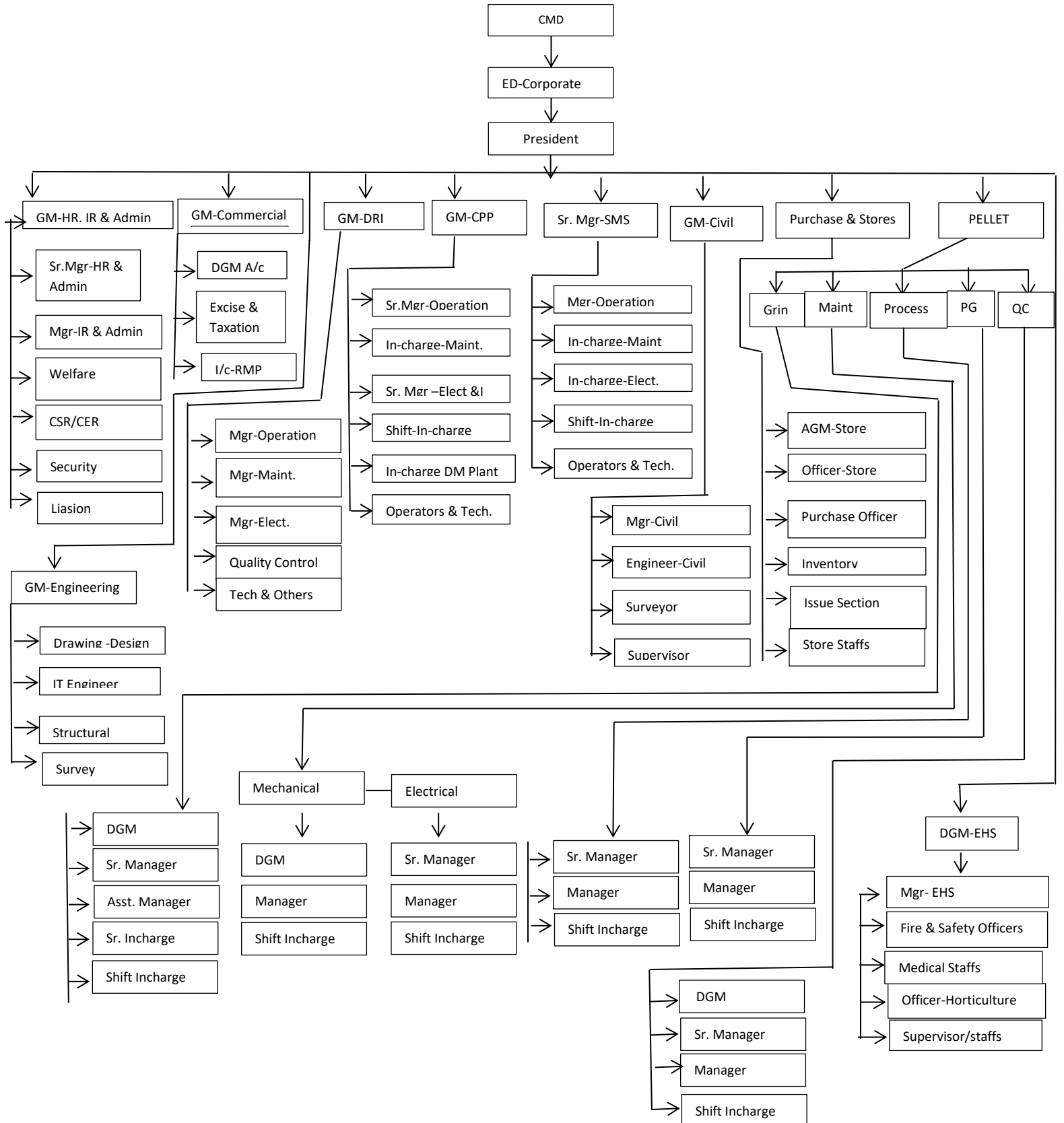



M/s Bravo Sponge Iron Pvt. Limited,

Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)

Risk and Disaster Management Plan

Organizational Structure:



	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 4
	Risk and Disaster Management Plan	

Man Power

Maximum number of persons available in the plant at any point of time is as follows:

Persons working under various shifts


SL. NO.	SHIFT	PERIOD	AVERAGE EMPLOYMENT/DAY
1.	A	06:00-14:00 Hrs	184
2.	B	14:00-22:00 Hrs	305
3.	C	22:00-06:00 Hrs	244
4.	G	09:00-18:00 Hrs (Lunch Break: 13:00-14:00 Hrs)	312
Total			1045

Depending on requirements employees are called in different shifts and few employees are called on duty during national/festival holidays and off days.

Nature of Hazards in BSIPL

A steel industry is hazardous by its very nature. The nature of various hazards in BSIPL Plant is detailed below:

Hazards	Source
Fire Hazard.	Spillage of Fuel Oil, CO gas
Explosion due to spillage of hot metal during water contact.	Spillage/Transfer of hot metal, or liquid steel.
Heat radiation due to hot metal handling.	Spillage of liquid metal, hot steel and hot slag.
Accidents due to failure of material handling during lifting & carrying equipment/material.	Connected with all material handling equipment's through EOT cranes.
Accidents due to failure of high pressure steam water or oil lines.	AFBC and WHR Boilers.
Release of co gas	PGP, Furnace

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 5
	Risk and Disaster Management Plan	

PROCESS DESCRIPTION (In Brief)

➤ DRI

Sponge iron is manufactured through the coal-based route in which iron ore is converted into Sponge Iron or directly reduced iron in a rotary kiln using coal both as reductant and fuel.

Rotary kiln unit comprises of raw materials storage bins, rotary kiln, rotary cooler, product screening and magnetic separation units, After Burning Chamber and in-plant dedusting system.

Iron ore and coal, after proper sizing in the respective crushing and screening stations as well as sized dolomites are fed to the raw material day bins for kiln.

With the rotation of the kiln, the charge moves down the slope and the surface of material is exposed to heat and reducing atmosphere. The reduction from iron oxide to iron occurs by a gradual removal of oxygen at various temperatures under the controlled reducing atmosphere giving rise to various intermediate oxides.

Hot sponge iron is discharged from the kiln-discharge end and taken into the rotary cooler. The sponge iron after cooling is discharged through the cooler discharge chute into a heat resistant belt conveyor and carried into the product processing building. The product (Magnetic in nature) is screened and separated from char, which is not magnetic.

The gas generated, during the process, contains fine carbon particles, carbon monoxide ash dust which are separated and waste heat associated with gas is recovered in WHRB from which power is generated.


➤ STEEL MELTING SHOP (SMS).

In the SMS section scrap and pig iron are charged in Induction Furnace along with DRI in which heat is applied by induction heating and melted by electrical eddy current in a crucible placed in a water cooled alternating current solenoid coil. After achieving the desired composition and temperature, slag is scooped out from the top of hot metal and hot metal is poured into transfer ladle crucible and sent to CCM after addition of requisite amount of Ferro alloys. Induction furnaces are provided with matching billet casters. In CCM liquid steel is casted to billets.

➤ ATMOSPHERIC FLUIDIZED BED COMBUSTION BOILER (AFBC):

In AFBC boiler coal is crushed to a size of 1 — 10 mm depending on the rank of coal, type of fuel feed into the combustion chamber. The atmospheric air, which acts as both the fluidization air and combustion air, is delivered at a pressure and flows through the bed after being preheated by the exhaust flue gases. The velocity of fluidizing air is in the range of 1.2 to 3.7 m /sec. The rate at which air is blown through the bed determines the amount of fuel that can take part in reaction.

Almost in all AFBC bubbling bed boilers use in bed evaporator tubes in the bed of limestone, sand and fuel for extracting the heat from the bed to maintain the bed temperature. The bed depth is usually 0.9 m to 1.5 m deep and the pressure drop averages about 10mm of water per cm of bed depth. Very little material leaves the bubbling bed — only about 2 to 4 kg of solid is recycled per ton of fuel burned (AFBC).

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 6
	Risk and Disaster Management Plan	

The combustion gases pass over the super heater sections of the boiler, flow past the economizer, the dust collectors and the air pre heaters before being exhausted to atmosphere. The main special feature of atmospheric fluidized bed combustion is the constraint imposed by the relatively narrow temperature range within which the bed must be operated. With coal, there is risk of clinker formation in the bed if the temperature exceeds 950°C and loss of combustion efficiency if the temperature falls below 800°C. For efficient sulphur retention, the temperature should be in the range of 800°C to 850 °C.

AFBC at Bravo generates super-heated steam at 110 kg/cm² and 540 °C

➤ **WASTE HEAT RECOVERY BOILER:**

Production of sponge iron in DRI kiln generates huge quantities of hot flue gases carrying considerable sensible heat. The energy content of these gases is effectively used to generate electric power as well as steam for meeting various process requirements. Thus a WHRB (Waste Heat Recovery Boiler) power plant is an ideally suited proposition to effectively make use of this waste gas. This WHRB Power plant not only make the plant independent of external source of electric power to some extent but also result in energy conservation and environment protection. The waste heat from 04 nos. DRI Kilns bearing temperature approx. 950°c taken in to WHRB attached with respective kilns for heat recovery and steam generation. These 04 nos. of WHRB generate approx. 32 ton heat and 08 MW power for further use in plant operation.


➤ **Producer Gas Plant (PGP):**

Producer gas is a mixture of gases that contain carbon monoxide gas, carbon dioxide gas, nitrogen gas, and hydrogen gas. From these gases, carbon monoxide gas and hydrogen gas are combustible gases. While carbon dioxide and nitrogen gases are non-combustible gases.

Producer Gas is formed in the cylindrical Vessel. The diameter of this cylindrical Vessel is around 3 m and the height is around 4 m. The coal is added from the upper zone known as the pre-heated zone with the help of a cup and cone. The lowest zone of these vessels is known as the ash zone. The inlet is attached from this ash zone. This inlet carries the oxygen gas and steam gas to the upper zone (oxidation zone) also known as the combustion zone. The coal is heated in the presence of these oxygen gas and steam gas. In the oxidation zone, the carbon reacts with oxygen and forms the carbon dioxide and carbon monoxide gas as a product of combustion. The third zone is known as the reduction zone. In this reduction zone, the steam reacts with the carbon and produces carbon monoxide gas and hydrogen gas as a product of combustion. In the pyrolysis zone, the produced gas passed through this zone and heated at even higher temperature and released out from the outlet.

➤ **Pellet Plant:**

Pelletizing is a process which involves mixing of very finely ground particles of iron ore fines having a size which is less than 200 mesh (0.074 mm) with additives like bentonite and then shaping them into near oval/spherical balls having size in the range of 8 mm to 16 mm in diameter by a pelletizer and hardening the balls by firing with fuel/gas. It is an agglomerating process of

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 7
	Risk and Disaster Management Plan	

converting iron ore fines into ‘uniformed sized iron ore pellets’ which can be charged directly into a rotary kiln or into a vertical furnace.

➤ **INVENTORY OF RAW MATERIALS**

The inventories of raw materials used in the process are listed in the table below, which gives details of material stored. It contains maximum one month storage for each substance in process and transferred to day tanks to meet daily consumption, it is because day tanks are connected to unit where it is consumed.

MAXIMUM STORAGE OF CAPACITY OF RAW MATERIALS

SL. NO.	Operating Unit	RAW MATERIALS	MAX. STORAGE CAPACITY (Metric tons per month)
1.	Sponge Iron Plant	Iron Ore/Pellet	25,000MT
		Coal	12,427MT
		Dolomite	621MT
2.	Induction Furnace	Sponge iron	500MT
		Pig iron	600MT
		MS Scrap	500MT
		Ferro Alloy	100MT
3.	Captive Power Plant (WHRB based)	Waste heat recovery type boilers are installed for electrical power generation, No raw material required.	
4.	Captive Power Plant (AFBC boiler based)	Dolachar	2700MT
		Coal fines	100MT
5.	Pellet Plant	LDO	450 KL
		PCI coal	1000MT
		Bentonite	2000MT
		Pellet	1 LAKH MT
		Filter cake	20.000 MT
		Iron ore fines	150.000MT
6.	PGP	Coal	3500MT

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 8
	Risk and Disaster Management Plan	

➤ **INVENTORY OF HAZARDOUS SUBSTANCES.**

The inventory of Hazardous materials is mentioned below:

Sl No.	Name Of Hazardous Substances	Maximum Storage Capacity
1	HSD for AFBC and DRI kiln cold start up (Under Ground). As per norms of “explosive authority”	1 X 20 KL
2	LDO ALL MS VERTICAL TANK PLACED	2 X 200KL 2 x 25KL

ONSITE EMERGENCY PLAN

Onsite and Offsite disaster preparedness and emergency management plan including risk assessment and damage control.

In a steel plant, the steel making process involves a number of hazardous processes starting from raw material handling, melting of iron ore, and converting iron into steel till the finished products. Also, the by-product plants, captive power plant, utilities & other auxiliary plants use considerable amount of combustible materials and these materials are stored in bulk storages like tanks, cylinders, drums, and gas holders etc., installed in the plant posing major risks.


Bursting of high pressure steam lines or BFW lines can also cause series of accidents and to prevent that periodic NDT and maintaining record timely action is necessary.

The detailed study with concern to various possible hazards and their associated processes & equipment’s has been identified. The list of this identified hazardous equipment in the plant is given in the following pages. The potential hazards from the above identified equipment and from the various hazardous operations/processes in the plant have been analyzed and the possible causes for occurrence of such hazards, likely consequences and the remedial action required are recommended.

Emergency Action Plan:

Emergency Planning begins with the identification and assessment of the principal hazards which are normally fire, explosion and toxic release. With the growing complexity of the process plants, more systematic and searching methods for risk identification and quantification have been developed over the years. Generally the emergencies that occur in process plants are classified into two categories. The one whose effects remain within the boundary limits of the plant is known as On-Site Emergency and the one where the effects go beyond the boundary limits is known as Off-Site Emergency. In BSIPL, the requirements of the On -Site Emergency Plan are addressed due to fire hazard only.

This On-Site Emergency Plan is prepared for Bravo Sponge Iron Pvt. Ltd in accordance with the guidelines provided by the Ministry of Environment & Forests & Climate Change (MoEF & CC), Govt. of India, covering the various hazardous processes and the bulk storages of hazardous materials, toxic gases etc., in

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 9
	Risk and Disaster Management Plan	

different departments.

HAZARD IDENTIFICATION AND DETAILS OF PROPOSED SAFETY SYSTEMS

Identification of Hazards

Hazard is in fact the characteristics of a system/plant/storage that presents potential for an accident and risk is the probability of occurrence for hazard. Hence; Hazard identification is of prime significance for the quantification of risk and for cost-effective control of accidents in any industrial installation. Various techniques of predictive hazard evaluation and quantitative risk analysis suggest identification of hazard has very important role in estimation of probability of an undesired event and its consequences on the basis of risk quantification in terms of damage to personnel, property and environment.

Hazards are mostly manifested in the form of fire/ explosion/ toxic release. Each anticipated hazard scenario associated in the unit is described along with its assessment of impact on plant and locality in the following table:

ANTICIPATED HAZARD SCENARIO:

Type of Hazard	Areas	Preventive / Mitigation measures
Pool fire/ ball fire	HSD Storage Tank	Dyke wall is provided around the HSD tank. Regular monitoring being done to check out the leakage/spillage if any. Fire protection measures (Foam Trolley, DCP extinguishers and hydrant system) are provided. Area is as "No Smoking Zone" demarked.
	LDO	Dyke wall is provided around the MS vertical tank. Regular monitoring being done to check out the leakage/spillage if any. Fire protection measures (Foam trolley, DCP extinguishers & hydrant system) are provided. Area is as "NO SMOKING ZONE" demarked.
Dust	Raw material handling & storage yard	Raw materials are transported in the trucks with tarpaulin covers. Raw materials are kept on concreted land with tarpaulin cover. Water sprinkling facility is provided for dust suppression during material handling in the yard. Conveyor belts used for raw material feeding and carrying finished goods are properly covered. PPEs like nose mask, safety helmet, safety shoes and safety goggles are provided to persons, deployed for working in this area.
Noise	Turbine Generator hall, Blower house, Air compressor house, DG & Pump houses.	Equipment's are suitably covered in building with adequate ventilation to attenuate the noise level against outside exposure and area keeps generally unmanned, however working personnel are provided with suitable ppes like ear plugs and ear muffs during inspections.
Heat Exposure	SMS, CCP, DRI, PELLET PLANT, & PGP	Providing proper PPE like leg guards with safety shoes, Face shield, leather hand gloves, Leather Aprons, safety helmets etc. Thermal insulation for steam line. Providing fans, air

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 10
	Risk and Disaster Management Plan	

		blower and showers etc.
Acid exposure	LABS; DM Plant, Pellet plant, SMS and DRI	Acid and Base used are being kept on isolated place with proper leveling. Personnel handling these chemical being well equipped with PPEs like rubber hand gloves, apron, nose mask, face shield/safety goggles, safety shoes etc. Once any person gets exposed to acid or base the affected parts are thoroughly washed with cold water and necessary first/medical aid is given to the injured person.
CO Gas	PGP & Pellet plant	<p>To effectively control and prevent hazards, all employees are trained periodically and continue monitor with updated devices such detectors & Alaram system.</p> <p>Develop plans with measures to protect workers during emergencies and non-routine activities.</p> <p>All the employees & workers are well equipped with PPEs such portable Co detector, Oxygen breathing apparatus, face guard, suitable gloves, aprons, mask.</p> <p>First aid box mounted in control room with emergency contact numbers.</p> <p>Suitable fire extinguishers are placed in all platforms & control room.</p>


IDENTIFICATION OF MOST CREDIBLE HAZARD SCENARIOS

All the anticipated hazard scenarios associated with the factory (as listed above) are critically analyzed and identified credible scenario is pool fire/ball fire if the HSD comes in contact with flame or it may auto ignite at 225 deg. C temperature.

Flash point of HSD is 66°C and it is not a flammable liquid. Tank fire spreads vertically taking a conical shape due to rush of air from all directions, since the suitable firefighting system are provided to control emergency situations. On the basis of above consideration, the pool fire due to fire hazard in the storage tank is not considered as most credible scenario.

Tank fire may be caused by lightning, but when tank leaks or overflows due to mal operation of instruments or negligence of operator and liquid gets ignited by chance; then this may be treated as a large pool fire and dealt as a common fire.

But in case of disaster due to natural calamities a disaster management team will come to action.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 11
	Risk and Disaster Management Plan	

KEY PERSONNEL

Key personnel are the directed and nominated people, each having specified responsibilities as a part of a coordinated plan.

The main key personnel are:

- Works Main Controller.
- Works Incident Controller.
- Site Incident Controller.
- Other key personnel who have the key role to play are senior personnel from all sections e.g. production, maintenance, laboratory, medical, transport, safety, security etc.

ROLE OF KEY PERSONS

Works Incident Controller (WIC)

The Works Incident Controllers are the departmental heads of respective divisions for DRI, CPP, Pellet plant, PGP and SMS whose duties include the direction of the efforts and lead to onsite emergency response team to control the situation. Since in the initial stages of emergency, the Works Incident Controller may be called on to take decisions involving the operations of other plants, it is necessary for the person selected to have a thorough knowledge of the overall works situation.

The person working as shift in-charge/manager i. e., an individual having overall control of the works processes for a shift shall work in the authority of WIC when the Works Incident Controller (WIC) may be off-site or affected by the emergency.


Site Incident Controller (SIC)

He will be available at the factory or in the colony nearby. At any point of time and on being informed about an accident, he has to:

- Intimate the Works Main Controller (WMC) and proceed to the emergency site.
- Take the necessary information from Combat Team Leader (CTL), assess the situation and call Rescue Team Leader (RTL) and Auxiliary Team Leader (ATL).
- Inform Works Main Controller (WMC) regarding the situation.
- Take necessary steps and provide guidance to Combat Team, Rescue Team, and Auxiliary Team Leaders to mitigate the emergency situation.
- Examine for major emergency shutdown operation activities, decide safe escape route and announce for evacuation to Assembly Point.
- Inform Works Main Controller (WMC) about the status of the situation at regular intervals.

Works Main Controller (WMC)

The Works Main Controller is the President of the unit and is generally available in

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 12
	Risk and Disaster Management Plan	

the factory or reside in the nearby except on tours. On emergency, he can reach work site at any odd hour within 45 minutes time. In his absence, GM at Plant shall take up his charge as Works Main Controller (WMC)

In the major situation, decisions will have to be taken by Works Main Controller (WMC) by collaboration with the senior managers at works which may affect the whole or a substantial part of the works and senior officers of the outside services as per site situation.

After getting informed of an emergency situation WMC will rush to the emergency site, collect all information from SIC and

- Decide if emergency is to be declared and advise Site Incident Controller (SIC) accordingly and reach Emergency Control Room (ECR).
- Take decision to shut-down the plant if necessary to take up repair and other combating measures.
- Advise Rescue Team Leader (RTL)/Security Gate to blow the siren with appropriate code for declaration of emergency.

EMERGENCY SIREN MEANS

“Twenty Seconds with a pause of Five Seconds for 5 times”

- Advice Auxiliary Team Leader (ATL) for communication to statutory authorities and for mutual aid as required.
- Through Auxiliary Team Leader (ATL) shall ensure constant communication to statutory authorities and to mutual aid partners as required.
- Maintain continuous communication with Site Incident Controller (SIC) to review the situation and assess the possible course of action for emergency operations.
- To declare normalcy at the end of operation and advise Rescue Team Leader (RTL)/Security Gate to blow **“all clear siren”**

All Clear Siren will be blown for 1 minute continuously.

- Ensure the record keeping of emergency operations chronologically.


ESSENTIAL PERSONNEL

The Works Incident Controller/Main Controller will be supported by a Task Force of suitably trained people. The nature of essential works to be performed is:

- Shutdown of Plants
- Isolation, repairing of the affected equipment /pipeline etc.
- First Aid, and removal of the injured persons to hospital.

COMBAT TEAM LEADER

He is the leader to attend to the emergency and is available in the factory or in the colony at any instant.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 13
	Risk and Disaster Management Plan	

On being informed about an accident, he has to:

- Immediately rush to the site and lead the rescue team to control the situation.
- Inform Site incident controller (SIC) about the incident and request him to rush to the spot.
- Give the necessary instructions to the rescue team to combat the situation
- Co-ordinate the activities of team members and combat the emergency, so as to eliminate the root cause of the hazard.
- To arrest the leakage and spillage from various equipment, shut down the concerned equipment.
- Take necessary action to remove unwanted persons from the site of the incident.
- Keep informed about the developments to Site Incident Controller (SIC).

RESCUE TEAM LEADER


He is the person who conducts rescue operations and should be available at any instant. On receiving the information about the incident he has to:

- Rush to site of emergency through safe route.
- Ensure presence of all his team members, availability of firefighting facilities and take necessary action to arrest the fires/leakage of gas.
- Arrange for safe escape of entrapped persons.
- Make necessary arrangements to send the affected persons for immediately medical attention through the medical officer.
- Search for the missing persons on the basis of roll call taken by Auxiliary team leader (ATL).
- Give the feedback to the site incident controller (SIC) about the developments.

AUXILIARY TEAM LEADER

He is the communication manager for the crisis management. On being informed of the emergency, he should proceed to Emergency Control Room (ECR) and:


- Keep in constant touch with works main controller (WMC) and Site Incident Controller (SIC).
- Inform the Statutory Authorities and District Administration.
- Communicate to mutual Aid Partners, Fire service stations at Raghunathpur/Santaldih and Purulia fire station, if required.
- Send communications to District Hospital Purulia for rendering services.
- Inform the relatives of casualties and send them to their residence or hospital as necessary requirement.
- Take care at site visit of the statutory authorities at the spot.
- Give feed back to work main controller (WMC) about the status with respect to

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 14
	Risk and Disaster Management Plan	

his areas of concerns activity.

ACTION PLAN FOR RISK AND DISASTER MANAGEMENT


STEP NO	INITIATOR	ACTION TO TAKE
1.	The person noticing the emergency	<ul style="list-style-type: none"> • Inform to Emergency Control Room i.e; Security Main Gate and concerned Shift-in —charge of area. Emergency Control Room (ECR) emergency call to Combat Team Leader to rush the spot with the team to fire fighting.
2.	Combat team Leader (CTL)	<ul style="list-style-type: none"> • Inform to Site Incident Controller (SIC) to know the actual spot and rush to spot area and organize his team to control the undesired event. • Take charge of the situation and put down the emergency by extinguish fire through firefighters. • To start combating, shut-down equipment's, arrest the leakage of gas/fire.
3.	Site Incident Controller (SIC)	<ul style="list-style-type: none"> • Inform works Main Controller (WMC) and rush to emergency site. • Discuss with Combat Team Leader (CTL), assesses the situation and call the Rescue Team Leader (RTL) & Auxiliary Team Leader (ATL). • Organize the Rescue Team and Auxiliary Team and send the rescue Team to site. • Arrange to evacuate the unwanted persons and call for additional help. • Pass information to the works main controller (WMC) periodically about the position at site.
4.	Works main Controller (WMC)	<ul style="list-style-type: none"> • Rush to emergency site and observe the ongoing activities. • Take stock of the situation in consultation with the SIC. • Move to Emergency Control Room. • Take decision on declaration for emergency. • Advise Auxiliary Team Leader to inform the statutory authorities and seek help of mutual aid from partners as required. • Decide on declaration to end emergency. • Ensure that the emergency operations are recorded as per chronologically.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 15
	Risk and Disaster Management Plan	

5.	Rescue Team Leader (RTL)	<ul style="list-style-type: none"> • Consult with Site incident controller (SIC) and organize his team with amenities to arrest firefighting and medical help/ treatment. • Rush to Emergency Site through safe route along with the team members. • Arrange to set off the fire by firefighting equipment's and hydrant points to arrest the fire or to evacuate the area. • Shift the injured persons to hospital by ambulance after providing necessary first aid if necessary. • To inform the auxiliary team Leader for necessary help from mutual aid Partners.
6.	Auxiliary Team (ATL)	<ul style="list-style-type: none"> • On being directed by works main Controller (WMC) informs about the emergency to statutory authorities. • Seek help of Mutual Aid partners and Coordinate with Mutual Aid partners to render their services. • Arrange, to inform the relatives of casualties. • Take care at site visit of the statutory authorities at the spot.
7.	Team members	Each of the team members should follow the instruction of concerned team leader to mitigate the emergency.

Salient Hour Command Structure

- The Senior Officers/ Key Persons of the plant remain during day time i.e. 8A.M. to 8 P.M. Hence; the timing of 8P.M. to 8A.M. is considered as salient hour that to 10P.M. to 8A.M. is the crucial time. Still each and every unit/section of the plant is headed by shift in charge in the rank of Officer, Engineer or Sr. Engineer or Asst. Manager, who shall be responsible for handling the emergency,. The other supporting/services and emergency sections like Fire Service, Ambulance, Security, Personnel, Water Supply, Transport departments etc are also running for 24 hours shift wise with shift in charge and crew to handle emergency during the salient hour till main command personnel arrives. However, most of the key persons of the main command structure reside in nearby area and can reach within minimum time.
- The command structure of the salient hour shall be same as during normal hour, however, during the salient hour, the operation Shift-in charge of the concerned area where the fire or leakage of gas has taken place, shall act as SIC-in —charge, till the arrival of actual designation members.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 16
	Risk and Disaster Management Plan	


ACTIVATION & CLOSING PROCEDURE FOR ON-SITE EMERGENCY ACTIVATION PROCEDURE.

The person noticing the incident of fire or leakage of gas, shall inform about the location & nature of fire to the combat team Leader (CTL), Security Main Gate and concerned Shift-in-charge.

Combat team Leader (CTL) shall inform site incident controller (SIC) and shall rush to the site immediately. He shall arrange for firefighting and first aid box which is available at site. He shall arrange to take necessary steps to eliminate the root cause of fire.

Site incident controller (SIC) on getting information shall inform the WMC and reach the site at the earliest. He shall take over the charge and shall direct Rescue Team Leader (RTL) to carry out rescue operations including firefighting and medical attention. Site incident controller (SIC) shall co-ordinate with Combat team leader (CTL) to eliminate the root cause of fire.

- Work main controller (WMC), on arrival at site shall take status of the situation from site incident controller (SIC) and then rush to emergency control room (ECR) to declare emergency on the basis of assessment made by (Site incident controller (SIC). He shall give direction to the security gate/ (Rescue Team Leader) RTL to activate siren.
- Two Minutes with a pause of five seconds for 3 times for “fire Accident”.
- Three Minutes with a pause of five seconds for 5 times for “leakage of gas”.
- Combat team leader (CTL) shall mobilize for fire-fighting
- Rescue Team Leader (RTL) shall assist medical resources to site.
- Auxiliary Team Leader (ATL) shall take charge of Emergency Control Room (ECR), shall ensure smooth operation of ECR and shall inform relatives of casualties. Informs mutual Aid partners and ensures their arrival at site if required.
- Auxiliary Team Leader (ATL) informs statutory authorities and district administration regarding emergency suitably and coordinates their visit at site.
- Works main controller (WMC) coordinates and keeps the track of all the activities at site and off the site and arranges the recording of the activities in a chronological manner for review of the Onsite emergency Plan.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 17
	Risk and Disaster Management Plan	

FACILITIES AVAILABLE FOR ON-SITE EMERGENCY PLAN:

“ASSEMBLY POINT”

In any emergency it will be necessary to evacuate people from affected zones or the zones likely to be affected, to a safer place. Safer places are identified and designated as Assembly Points. Taking the area and hazard zones into consideration seven assembly points have been marked in four different areas these are:

- 1- Near Old Administrative Building (Assembly Point-1)
- 2- Near DRI & RMP Area (Assembly Point-2)
- 3- Near SMS Area (Assembly Point-3)
- 4- Near Power Plant Area (Assembly Point-4)
- 5- Near New Administrative Building (Assembly Point-5)
- 6- Near Pellet ECR building (Assembly Point-6)
- 7- Near Balling disc 1&2 (Assembly point -7)

Above the points are well connectable to the plant road and facilities like Drinking water, Temporary shelter and First aid is available there.

These points are displayed at different places of inside plant and near administrative buildings.

(a) Escape routes:


Escape routes are those that, allow reasonably safe passage of persons from the work area to assembly point during emergency situation. These routes would be different depending on wind direction, Fire and explosion scenario. Escape routes are ear marked on the drawings as well as on the routes, which will facilitate all for safe evacuation.

(b) Emergency Control Room (ECR):

The emergency Control Room is a place from which all emergency management operation are directed and coordinated. Also it is the place from where all communication will be established, with outside agencies and district authority also.

Facilities Available at Emergency Control Room(ECR):

- Plant general Layout, ear marked with hazard zone, Assembly points and escape routes.
- List of working personnel in various shifts and general shift.
- Mobile telephone Nos., of emergency command structure personnel.
- Emergency command structure.
- Rhythmical siren code for different emergency situation.
- Relevant material safety data sheet.
- Emergency Control Room Register.
- First Aid Box with antidotes.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 18
	Risk and Disaster Management Plan	

- Required personal protective equipment's with self-carrying breathing apparatus.

FACILITIES AVAILABLE

Fire Hydrant System

For the control fire incident water pipe line spread at designated place in fire prone operation area. Suitable capacity pumps are connected with water storage tank of 25,000M³ sufficient capacities to mitigate the water requirement for firefighting.

Fire Extinguishers

Required types of fire extinguishers are provided at different locations of the plant.

Fire Buckets

Fire buckets filled with dry sand are provided in different locations of the plant.

Siren

Company has Siren/ hooter arrangement, which can be activated manually during fire related emergency.

Communication

Public address system is available for effective communication inside the plant. Telephone directory is available in all the departments.

Occupational Health Center

Occupational Health Center, operate round the clock with ambulance, stretchers, oxygen cylinders etc, is placed inside the factory. Occupational health center is operated by one qualified and experienced MBBS Doctor and four medical attendants. An external Ambulance service is hired to meet emergency situation, if required. In the case of emergency, affected employees are being referred to nearby sub divisional hospital at Salka of Raghunathpur. In case of serious injury, victim may sent to referred hospital to save life as per first attempt doctor.

First Aid Box

Company has provided First Aid boxes with required first aid dressing materials/medicines at different locations inside the plant to address minor injuries. First aid boxes are checked by our qualified & experienced medical attendant once in a every month and medicines are filled/replaced as per requirement.

The first aid boxes are provided in the following locations:

DRI-Control room & RMHS office,

CPP-Control room & DM Plant,

SMS-Laboratory & CCM office,

Pellet Plant- Control room, Laboratory, Grinding control room, Pellet mechanical room.

Old Administrative building-Crew room,

New Administrative buildings-Reception,

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 19
	Risk and Disaster Management Plan	

Security Office-Main gate,

General Canteen.

DISASTER MANAGENENT PLAN

Introduction:

Disaster may be defined as a sudden occurrence of incidence in such a magnitude as to affect the normal pattern of life inside or in the vicinity of plant which has the potential of causing extensive injury of loss of life or damage to property and tend to cause disruption inside/outside the site.

Hazardous substances are being handled, generated and stored in increasing quantities a various manufacturing facilities in recent years. This has posed a serious risk for the plant, persons and the environment encompassing thereof. The disasters following incidents in some industrial units handling hazardous substances in the last 2 to 3 decades has made it imperative for all concerned to device measures and implement them immediately and effectively to mitigate their adverse effects, if not, to totally eliminate them. The need to protect human being, the flora and fauna as well as our bio-diversity against these potential dangers has prompted the government for promulgation of various statutory provisions for preparation of hazard mitigation plans based on their risk impacts.

The Factories (Amendment) Act 1987 and manufacture storage and Import of Hazardous Chemical Rules- 1989 has provided regulation making mandatory for all owners of hazardous undertakings to prepare for their Onsite Emergency Plan in a pragmatic way and keep those well re-harassed for rapid action in actual crisis situation.


The goal of DMP is the effective containment of the emergency situation by proper mitigate action at the place of occurrence, cautioning people in adjoining affected localities; prompt rescue and provisions of medical aid to affected persons and communication to civil authorities for rushing in help from outside.

This objective being achieved by defining the functions and responsibilities of all concerned managerial, operational and supporting services department personnel with respect to detection and effective implementation of emergency action plan.

Objectives of Disaster Management Plan (DMP):

The objectives of Disaster Management Plan (DMP) is to describe and spell out industry's emergency response actions that requires to be initiated to deal with various emergencies that could occur at the facility, with the response organization structure deployed in the shortest possible time. Thus the objective of emergency response plan can be summarized as:

- ✓ Rapid control and containment of the hazardous situation.
- ✓ Minimization of the risk and impact of event / accident.
- ✓ Effective rehabilitation of the affected persons and prevention of damage to property.

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 20
	Risk and Disaster Management Plan	

ELEMENTS OF DISASTER MANAGEMENT PLAN:

In order to effectively achieve the above mentioned objectives, the critical elements of the Disaster management plan (DMP) are follows;

- Reliable and early detection of an emergency and careful planning.
- The command, co-ordination, and response organization structure along with clearly demarcated line and staff function.
- The availability of resources for handling emergencies.
- Appropriate emergency response actions forecasted with least margin of error.
- Effective notification and communication facilities.
- Proper training of the concerned personnel.
- Regular review and updating of the DMP.

Responsibility of Implementation of DMP:

Responsibility for establishing and maintaining an Emergency Preparedness Plan/DMP belongs to the Plant-in-charge. He is responsible for the control of the plan, and for ensuring that the plan is applicable and implementing procedures are operated during emergency situation and are reviewed and revised annually.

As a member of top management he is responsible for the training of personnel to ensure that adequate emergency response capabilities are maintained in accordance with the plan. He is also responsible for ensuring the regular conduct of drills and other measures, as outlined in the DMP.

EMERGENCY COMMAND STRUCTURE

Works Main Controller (WMC)
 Mr. Sanjay Kumar Singh - President




Site Incident Controller (SIC)
 Mr. T. K. Chakraborty (GM-CPP)
 Mr. R. R. Pathak (GM-SID)
 Mr. Sumanta Nandi (Sr. Manager-SMS)
 Mr. Mahesh Rana (DGM-Pellet plant)



Auxiliary Team Leader (ATL)	Combat Team Leader (CTL)	Rescue Team Leader (RTL)
1. Mr. Deepak Shaw (HR, IR & Admin) 2. Mr. R. K. Mishra (DGM-EHS) 3. Mr. Srikant Mandal (HR & IR)	1. Mr. R K Sarangi (DGM-Pellet plant) 2. Mr. Harendra Singh (Sr. Manager-CPP) 3. Mr. Sanjay Pandit (Manager SMS/ CCM) 4. Mr. Baljeet Singh (Manager-RMP)	1. Mr. Arvind Rai Security Head 2. Mr. Rajiv Mukherjee Utility & Electrical Head 3. Mr. Mohammad Kalim Manager-EHS 4 Mr. Debasish Tewary (Admin & IR)



Members	Members	Members
1. Mr. K. N. Singh (DGM-Accounts) 2. Mr. Debasish Tewary (Admin & IR) 3. Mr. Sandeep paul (HR) 4. Anirban Das (Admin) 5. Subhasis Pradhan (Esic) 6. Mr. Binoy Lodha Officer (Automobile)	1. Mr.Somitro Shee Mgr-Electrical (CPP) 2. Mr. Uppendra Singh Sr. Mgr -Mechanical (DRI) 3. Mr. Abani Mahata Sr. Safety Officer 4. Mr. P S Dubey Sr. Security Officer 5...Mr. Mahadev Samanta Sr. Technician (Utility)	1. Mr. K.J Lawrence AGM Stores 2. Mr. C S Paswan Sr. Safety Officer 3. Mr. Bishambar Dubey Security Officer 4.Mr. Rajesh Mondal Medical attendant 5. .Mr. Rahul Kumar Security Officer

	M/s Bravo Sponge Iron Pvt. Limited, Vill: Mahuda, P.O: Raghunathpur, District: Purulia, (West Bengal)	Page 22
	Risk and Disaster Management Plan	

TELEPHONE NUMBERS OF EMERGENCY COMMAND TEAM

Sl No.	Name	Position in Team	Mob. Number
1	Mr. Sanjay Kumar Singh	Works Main Controller (WMC)	8695605669
2	Mr. T. K. Chakraborty	Site Incident Controller (SIC)	8900632315
3	Mr. R. R. Pathak		8695621895
4	Mr. Sumanta Nandi		7001860652
5	Mr. Mahesh Rana		7076999733
6	Mr. Deepak Shaw		9147099409
7	Mr. R. K. Mishra	Auxiliary Team Leader (ATL)	8695621900
8	Mr. Srikant Mondal		7719356455
9	Mr. R K Sarangi	Combat Team Leader (CTL)	7432055308
10	Mr. Harendra Singh		7004687981
11	Mr. Sanjay Pandit		8158952815
12	Mr. Baljeet Singh		7903010796
13	Mr. Arvind Rai	Rescue Team Leader (RTL)	7076999736
14	Mr. Rajiv Mukherjee		7547906800
15	Mr. Mohammad Kalim		7605035952
16	Mr. Debasish Tewary		8016558879

EMERGENCY CONTACT NUMBERS:

Sl No.	Name	Mob. Number	PAX. No.
1	Factory Main Gate	7547907800	NA
2	Factory Security In-charge	7076999736	
3	Factory Medical Unit/Ambulance	7548975623	
4	Govt. Ambulance Service	101	
5	Factory Safety officers	7605035952/9593191099/ 8420242216	
6	District Magistrate (Purulia)	83730686 01	03252-222 302
7	Superintendent of Police	8145500325	03252-222 304
8	Chief Medical Officer		03251-255208
9	ADM (G),	8373068602	03252-222120
10	OC Disaster Management	7872488802	-
11	Inspector of Factories (Purulia)	9474648348	0341-2252644
12	Dist. Controller F&S Purulia	8373068710	03252-222213
13	SDO, Raghunathpur	8373068608	03251-255270
14	Fire Station Raghunathpur	8584027313/314	03251-203550
15	Fire Station Santaldih	8584027312	03251-260238
16	Govt. Hospital Salka	-	03251-255208
17	Police Station Para	8145500375	03251-266330

Annexure-13



BRAVO SPONGE IRON PVT LTD

FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: P2531
 Name of worker: Masatsum Mabato
 Sex: M
 Date of last birth: 04-06-1991 Age: 31
 Division: Commenced Section/Department: Automobile
 Relevant Personal History: NO
 Prelisting Disease (if any): NO
PHYSICAL EXAMINATION:
 Height: 199cm Weight: 86 Blood Pressure: 126/72 Pulse: 96
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "A" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any):
 Further Advice:

[Signature]
 Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Madhya Pradesh
 Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD

FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B1003051
 Name of worker: Jitendra Gupta
 Sex: M
 Date of last birth: 10-02-1981 Age: 39
 Division: Administration Section/Department: Security
 Relevant Personal History: NO
 Prelisting Disease (if any): NO
PHYSICAL EXAMINATION:
 Height: 191cm Weight: 64 Blood Pressure: 138/88 Pulse: 82
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "O" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any):
 Further Advice:

[Signature]
 Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Madhya Pradesh, P.O. Rukni Dist Purulia (M.P.)
 Signature with date
 Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD

FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B1003157
 Name of worker: Parmanand Tiwari
 Sex: M
 Date of last birth: 05-01-1980 Age: 42
 Division: Admin Section/Department: Security
 Relevant Personal History: NO
 Prelisting Disease (if any): NO
PHYSICAL EXAMINATION:
 Height: 198 Weight: 70 Blood Pressure: 149/89 Pulse: 86
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "O" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any):
 Further Advice:

[Signature]
 Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Madhya Pradesh, P.O. Rukni Dist Purulia (M.P.)
 Signature with date
 Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD

FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B1003092
 Name of worker: Sureshendu Biswas
 Sex: M
 Date of last birth: 23-02-1998 Age: 24
 Division: Pellet Section/Department: P-Process
 Relevant Personal History: NO
 Prelisting Disease (if any): NO
PHYSICAL EXAMINATION:
 Height: 192 Weight: 86 Blood Pressure: 121/73 Pulse: 75
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "O" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any):
 Further Advice:

[Signature]
 Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Madhya Pradesh, P.O. Rukni Dist Purulia (M.P.)
 Signature with date
 Factory Medical Officer/the certifying surgeon



SHAKAMBHARI
GROUP

BRAVO SPONGE IRON PVT LTD

FORM NO-17

(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10003051

Name of worker: Jitendra Gupta

Sex: M

Date of last birth: 10-02-1981 Age: 39

Division: Administration Section/Department: Security

Relevant Personal History: NO

Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:

Height: 191cm Weight: 64 Blood Pressure 138/88 Pulse 82

Chest X Ray NORMAL ECG NORMAL

Blood group O RH Factor POSITIVE

Anemia ~~NORMAL~~

Jaundice ~~NORMAL~~

Abdomen NORMAL

Eye vision NORMAL

Ear/Audiometric NORMAL

General Health: OK/GOOD

Investigation (if any): _____

Further Advice: _____

Medical Officer
Bravo Sponge Iron PVT. LTD.
Manuda, P.O. Rukni Dist Purulia (W.B.)
Signature with date

Factory Medical Officer/the certifying surgeon

**BRAVO SPONGE IRON PVT LTD**FORM NO-17
(See rules 63 and 64)**HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022**

Employee Code No/Serial No: P2343
 Name of worker: DEEPAK BAURI
 Sex: M
 Date of last birth: _____ Age: 35
 Division: Commercial Section/Department: Automobile
 Relevant Personal History: NO
 Preexisting Disease (If any): NO

PHYSICAL EXAMINATION:
 Height: 182 Weight: 46 Blood Pressure: 140/80 Pulse: 75
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "O" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any): _____
 Further Advice: _____

Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Signal Road, Puna (W.B.)
 Factory Medical Officer/the certifying surgeon

**BRAVO SPONGE IRON PVT LTD**FORM NO-17
(See rules 63 and 64)**HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022**

Employee Code No/Serial No: P2056
 Name of worker: Ajit Bauri
 Sex: M
 Date of last birth: _____ Age: 48
 Division: Commercial Section/Department: Automobile
 Relevant Personal History: NO
 Preexisting Disease (If any): NO

PHYSICAL EXAMINATION:
 Height: 182 Weight: 61 Blood Pressure: 150/90 Pulse: 91
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "B" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any): _____
 Further Advice: _____

Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Signal Road, Puna (W.B.)
 Factory Medical Officer/the certifying surgeon

**BRAVO SPONGE IRON PVT LTD**FORM NO-17
(See rules 63 and 64)**HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022**

Employee Code No/Serial No: B10002242
 Name of worker: Prajdeep Kumar
 Sex: M
 Date of last birth: 26-07-1993 Age: 28
 Division: Pesticide Section/Department: Benf. Mech
 Relevant Personal History: NO
 Preexisting Disease (If any): NO

PHYSICAL EXAMINATION:
 Height: 196cm Weight: 90 Blood Pressure: 120/82 Pulse: 69
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "O" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any): _____
 Further Advice: _____

Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Signal Road, Puna (W.B.)
 Factory Medical Officer/the certifying surgeon

**BRAVO SPONGE IRON PVT LTD**FORM NO-17
(See rules 63 and 64)**HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022**

Employee Code No/Serial No: B1000225 B10003015
 Name of worker: BALWANT KUMAR SINGH
 Sex: M
 Date of last birth: 06-01-1979 Age: 48
 Division: OPP Section/Department: Mech.
 Relevant Personal History: NO
 Preexisting Disease (If any): NO

PHYSICAL EXAMINATION:
 Height: 188cm Weight: 85 Blood Pressure: 138/85 Pulse: 77
 Chest X Ray: NORMAL ECG: NORMAL
 Blood group: "B" RH Factor: POSITIVE
 Anemia: NO
 Jaundice: NO
 Abdomen: NORMAL
 Eye vision: NORMAL
 Ear/Audiometric: NORMAL
 General Health: OK/GOOD
 Investigation (if any): _____
 Further Advice: _____

Medical Officer
 Bravo Sponge Iron PVT. LTD.
 Signal Road, Puna (W.B.)
 Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002264
Name of worker: SAILESH KUMAR SINHA
Sex: M Age: 46
Date of last birth: 13-12-1976
Division: CPP Section/Department: OPERATION
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:
Height: 193 Weight: 83 Blood Pressure 117/70 Pulse 79
Chest X Ray NORMAL ECG NORMAL
Blood group "O" RH Factor POSITIVE
Anemia NO
Jaundice NO
Abdomen NORMAL
Eye vision NORMAL
Ear/Audiometric NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Maharaja P.O. Bhubaneswar (WB.)
Factory Medical Officer/the certifying surgeon

(24)



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002773
Name of worker: Vishal K. Gupta
Sex: M Age: 33
Date of last birth: 10-09-1989
Division: SMS Section/Department: SMS-COM
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:
Height: 189 Weight: 68 Blood Pressure 112/77 Pulse 95
Chest X Ray NORMAL ECG NORMAL
Blood group "B" RH Factor POSITIVE
Anemia NO
Jaundice NO
Abdomen NORMAL
Eye vision NORMAL
Ear/Audiometric NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Maharaja P.O. Bhubaneswar (WB.)
Factory Medical Officer/the certifying surgeon

(25)



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: PC2327
Name of worker: Izzad Ansari
Sex: M Age: 58
Date of last birth: _____
Division: Commercial Section/Department: Automobile
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:
Height: 186cm Weight: 76 Blood Pressure 161/79 Pulse 82
Chest X Ray NORMAL ECG NORMAL
Blood group "B" RH Factor POSITIVE
Anemia NO
Jaundice NO
Abdomen NORMAL
Eye vision NORMAL
Ear/Audiometric NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Maharaja P.O. Bhubaneswar (WB.)
Factory Medical Officer/the certifying surgeon

(27)



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: Saikat K. Ent.
Name of worker: Dinesh Yadav
Sex: M Age: 34
Date of last birth: _____
Division: SMS Section/Department: SMS
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:
Height: 194 Weight: 61 Blood Pressure 142/78 Pulse 78
Chest X Ray NORMAL ECG NORMAL
Blood group "O" RH Factor POSITIVE
Anemia NO
Jaundice NO
Abdomen NORMAL
Eye vision NORMAL
Ear/Audiometric NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Maharaja P.O. Bhubaneswar (WB.)
Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002207
Name of worker: R.R. Pathak
Sex: M
Date of last birth: 06-07-1979 Age: 43
Division: DRI Section/Department: DRI
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:

Height: 199 Weight: 86 Blood Pressure: 142/97 Pulse: 105
Chest X Ray: NORMAL ECG: NORMAL
Blood group: "O" RH Factor: POSITIVE
Anemia: NO
Jaundice: NO
Abdomen: NORMAL
Eye vision: NORMAL
Ear/Audiometric: NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Mahuda, P.O. Rukni Dist Purbia (W.B.)
Signature with date
Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002251
Name of worker: BIRENDR YADAV
Sex: M
Date of last birth: 15-02-1984 Age: 38
Division: Pellet Section/Department: Meen
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:

Height: 175cm Weight: 67 Blood Pressure: 123/84 Pulse: 73
Chest X Ray: NORMAL ECG: NORMAL
Blood group: "A" RH Factor: POSITIVE
Anemia: NO
Jaundice: NO
Abdomen: NORMAL
Eye vision: NORMAL
Ear/Audiometric: NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Mahuda, P.O. Rukni Dist Purbia (W.B.)
Signature with date
Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002224
Name of worker: SUBRATA DAS
Sex: M
Date of last birth: 10-09-1985 Age: 37
Division: Pellet Section/Department: Operation
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:

Height: 173cm Weight: 69 Blood Pressure: 114/76 Pulse: 87
Chest X Ray: NORMAL ECG: NORMAL
Blood group: "O" RH Factor: POSITIVE
Anemia: NO
Jaundice: NO
Abdomen: NORMAL
Eye vision: NORMAL
Ear/Audiometric: NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Mahuda, P.O. Rukni Dist Purbia (W.B.)
Signature with date
Factory Medical Officer/the certifying surgeon



BRAVO SPONGE IRON PVT LTD
FORM NO-17
(See rules 63 and 64)

HEALTH CARD OF POST EMPLOYMENT FOR EMPLOYEES 2022

Employee Code No/Serial No: B10002023
Name of worker: Baljit Singh
Sex: M
Date of last birth: 08-05-1982 Age: 39
Division: DRI Section/Department: DRI-RMP
Relevant Personal History: NO
Prelisting Disease (If any): NO

PHYSICAL EXAMINATION:

Height: 199 Weight: 81 Blood Pressure: 145/86 Pulse: 89
Chest X Ray: NORMAL ECG: NORMAL
Blood group: "O" RH Factor: POSITIVE
Anemia: NO
Jaundice: NO
Abdomen: NORMAL
Eye vision: NORMAL
Ear/Audiometric: NORMAL
General Health: OK/GOOD
Investigation (if any):
Further Advice:

Medical Officer
Bravo Sponge Iron PVT. LTD.
Mahuda, P.O. Rukni Dist Purbia (W.B.)
Signature with date
Factory Medical Officer/the certifying surgeon

Annexure-14



(http://www.technoglobalthospital.com)



(http://www.technoglobalthospital.com)



কলকাতা শনিবার ৭ নভেম্বর, ২০২০

(http://www.eajkaal.in)

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ফর্ম নং- আইএনসি-২৫এ
পাবলিক কোম্পানি থেকে আইডেট কোম্পানিতে পরিবর্তন উপলক্ষে সংবলপত্র বিজ্ঞাপন প্রকাশ
রিজিষ্টার্ড অফিস, ইন্টার রিজিয়ন, কর্পোরেট বিবরণ স্মারক, কলকাতা সমীপে
কোম্পানি আইন, ২০১৩, কোম্পানি আইন ২০১৩-এর ১৪ ধারা এবং
কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর ক্রম ৪১ অনুসারে, বিবিসি মেমোরি ডি ইন্ডাস্ট্রিয়াল গ্যাসেস লিমিটেড, রেজিষ্টার্ড অফিস: ১৫, গণেশচন্দ্র আড্ডিনিউ, কলকাতা- ৭০০ ০১৩

... **আবেদনকারী**
এতদ্বারা জনসাধারণের প্রতি বিজ্ঞপ্তি জারি করা হচ্ছে যে, পাবলিক কোম্পানি থেকে আইডেট কোম্পানিতে রূপান্তর উদ্দেশ্যে ৩ নভেম্বর, ২০২০ তারিখে বিবেচ্য সভায় সভাপতি পৃথিবী বিশেষ প্রজ্ঞা অনুযায়ী কোম্পানির সঞ্চালকের করতালের অনুমোদন প্রার্থনা করে কোম্পানিজ আইন ২০১৩-এর ১৪ ধারা অনুসারে কেন্দ্রীয় সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন করার প্রস্তাব করেছে।
কোম্পানির রেজিষ্টার্ড অফিসের প্রস্তাবিত ঠিকাস পরিবর্তনের ফলে স্বর্ষ ক্ষুদ্র হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশের তারিখ থেকে চোদ্দো দিনের মধ্যে রিজিষ্টার্ড অফিস, ইন্টার রিজিয়ন, ২৩৪, এ জে সি বোস রোড, নিজাম প্যালেস, II এমএস ও বিল্ডিং, ৪র্থ তল, কলকাতা-৭০০০২০-এর কাছে তথ্য/তথ্যের (পূ/পু) স্বার্থের ধরন এবং বিরোধিতার কারণ উল্লেখ করে একটি হলফনামা দ্বারা সমর্থিত আপত্তিসমূহ রেজিষ্টার্ড অফিসের কাছে পৌঁছাতে পারেন, তৎসহ নিজে বসিত টিকানাতে অবস্থিত অফিসে, আবেদনকারী কোম্পানির কাছে একটি কপি পৌঁছাতে পারেন।
আবেদনকারী: ডি ইন্ডাস্ট্রিয়াল গ্যাসেস লিমিটেডের
পক্ষে
স্বাঃ তেজেন্দ্র গর্গ
জিরেক্টর
তারিখ: ০৬.১১.২০২০ **DIN: 01417829**
স্থান: কলকাতা **রেজিষ্টার্ড অফিসের সম্পূর্ণ ঠিকানা:**
১৫, গণেশচন্দ্র আড্ডিনিউ, কলকাতা- ৭০০ ০১৩

প্রকাশ্য বিজ্ঞপ্তি
এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, **পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে** রেজিষ্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য **লিফটাইন ট্রেডলিফট এলএলপি** দ্বারা রেজিষ্ট্রারের অফিসে লিমিটেড লায়সেন্সিটি পটনায় পেশ করা, ২০০৮-এর ১৩ নং ধারাবাহীতে একটি নোটিস পাঠানো হবে।
রেজিষ্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উক্ত প্রজ্ঞা থেকে কার্যকর স্বর্ষ ক্ষুদ্র হওয়ার সম্ভাবনা থাকলে যে কোনও ব্যক্তি এই বিজ্ঞপ্তি সংবলপত্র প্রকাশিত হওয়ার তারিখ থেকে ২১ দিনের মধ্যে তথ্য (পূ/পু) স্বার্থের ধরন ও বিরোধিতার কারণ উল্লেখ করে রেজিষ্ট্রারের কাছে লিখিতভাবে জানান এবং এর একটি কপি অবশ্যই লিফটাইন ট্রেডলিফট এলএলপি-এর নিয়মিত রেজিষ্টার্ড অফিসের টিকানায় পেশ করতে হবে।
রেজিষ্টার্ড অফিসের ঠিকানা: ৩৫, আর কে চ্যাটার্জি রোড, কলকাতা-৭০০০৪২।
লিফটাইন ট্রেডলিফট এলএলপি-এর তরফে
স্বাঃ বিজয় মোদী
বেডি কর্পোরেট
তারিখ: ০৬.১১.২০২০ **ডিপি নম্বর:**
স্থান: কলকাতা **ডিআইএন: 08413323**

প্রকাশ্য বিজ্ঞপ্তি
এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, **পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে** রেজিষ্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য **শর্পার এলএলপি** দ্বারা রেজিষ্ট্রারের অফিসে লিমিটেড লায়সেন্সিটি পটনায় পেশ করা, ২০০৮-এর ১৩ নং ধারাবাহীতে একটি নোটিস পাঠানো হবে।
রেজিষ্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে ন্যাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উক্ত প্রজ্ঞা থেকে কার্যকর স্বর্ষ ক্ষুদ্র হওয়ার সম্ভাবনা থাকলে যে কোনও ব্যক্তি এই বিজ্ঞপ্তি সংবলপত্র প্রকাশিত হওয়ার তারিখ থেকে ২১ দিনের মধ্যে তথ্য (পূ/পু) স্বার্থের ধরন ও বিরোধিতার কারণ উল্লেখ করে রেজিষ্ট্রারের কাছে লিখিতভাবে জানান এবং এর একটি কপি অবশ্যই শর্পার

সংশোধনী
ভুলক্রমে এই পত্রিকায় ০৬.১১.২০২০ তারিখে স্বর্ষ 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 স্বর্ষ ট্রেডিং কোম্পানি লিমিটেড পড়তে হবে।
অসুবিধার জন্য দুঃখিত।

বিএমডব্লু ইন্ডাস্ট্রিজ লিমিটেড
রেজিষ্টার্ড অফিস: ১১৯, পার্ক স্ট্রিট, হোয়াইট হাউস, ৪র্থ তল, কলকাতা- ৭০০ ০১৬
টেলি: ০৩৩-৪০০৭১২০৪, ০৩৩২২২৬৮৮২
ইমেইল: info@bmvil.co.in
Website: www.bmvil.co.in
CIN: L51109WB1981PLC034212

বিজ্ঞপ্তি
সিকিউরিটিজ অ্যান্ড এক্সচেঞ্জ বোর্ড অফ ইন্ডিয়া (সিটিং অবলিগেশনস অ্যান্ড ডিসকোজার বিকয়ারমেন্টস) রেগুলেশনস ২০১৫ (সিটিং রেগুলেশনস) রেগুলেশন ২৯ এবং সূচী-৩-এর অংশ ক অনুযায়ী বিজ্ঞপ্তি প্রদান করা হচ্ছে যে, কোম্পানির দ্বিতীয় ত্রৈমাসিক এবং বাৎসরিক সমাপ্ত ৩০শে সেপ্টেম্বর, ২০২০ সময়ের অপরিষ্কৃত একক এবং একীকৃত আর্থিক ফলাফল বিবেচনা ও অনুমোদনের জন্য কোম্পানির পরিচালন পর্যবেক্ষণ একটি সভা কোম্পানির রেজিষ্টার্ড 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**

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

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

শর্পার্স এলএলপি-এর নিয়মিত রেজিস্টার্ড অফিসের
টিকানাঃ পেশ করতে হবে:
রেজিস্টার্ড অফিসের টিকানা: ৩৫, আর কে চ্যাটার্জি রোড,
কলকাতা-৭০০০৪২।

গ্যামার শর্পার্স এলএলপি-এর তরফে
স্বাঃ কোভিড সুবার্জি
(বেডি কর্পোরেট
ড্রিপি নর্দিনি)
তারিখ: ০৬.১১.২০২০
স্থান: কলকাতা ডিআইএন: ৪3570652

প্রকাশ্য বিজ্ঞপ্তি

এতদ্বারা এই নোটিস জারি করা হচ্ছে যে, পশ্চিমবঙ্গ
রাজ্য থেকে নাশনাল ক্যাপিটাল টেরিটরি অফ দিল্লি-তে
রেজিস্টার্ড অফিস স্থানান্তর নিশ্চিতকরণের জন্য গোষ্ঠীমত
শর্পার্স এলএলপি দ্বারা রেজিস্ট্রারের অফিসে লিমিটেড
পার্টনারশিপ আর্জি, ২০০৮-এর ১৩ নং
ধারারীনে একটি নোটিস পাঠানো হবে।

রেজিস্টার্ড অফিস পশ্চিমবঙ্গ রাজ্য থেকে নাশনাল
ক্যাপিটাল টেরিটরি অফ দিল্লি-তে স্থানান্তরের উক্ত
প্রস্তাবে কার্য স্বীকৃত হওয়ার সম্ভাবনা থাকলে যে
কোনও ব্যক্তি এই বিজ্ঞপ্তি সবারপরে 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
গোষ্ঠীমত শর্পার্স এলএলপি-এর নিয়মিত রেজিস্টার্ড
অফিসের টিকানাঃ পেশ করতে হবে:
রেজিস্টার্ড অফিসের টিকানা: ৩৫, আর কে চ্যাটার্জি রোড,
কলকাতা-৭০০০৪২।

গোষ্ঠীমত শর্পার্স এলএলপি-এর তরফে
স্বাঃ পবন কুমার অননুলিয়া
(বেডি কর্পোরেট
ড্রিপি নর্দিনি)
তারিখ: ০৬.১১.২০২০
স্থান: কলকাতা ডিআইএন: ০2912037

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: গুয়াডারফুল ডিলার এলএলপি (L.L-
PIN: AAT-8257) দ্বারা রেজিস্টার্ড অফিস প্রথমে
বেঙ্গলুরু কান্দেই, ঘর নং ৫৫, ডুপেঞ্জ বোস
আর্ডিনিউ, স্ট্যাট ২ বি, ৩য় তল, কলকাতা-৭০০ ০০৪
জনসাধারণকে এতদ্বারা বিজ্ঞপ্তি জানান করা হচ্ছে যে,
এল এল পি লিমিটেড লাইবেলিটি পার্টনারশিপ আর্জি
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 স্বীকৃত
ক্ষম 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 হালফনামা
সহ সমন্বিত আপত্তিসমূহ পাঠাতে পারেন তৎসহ
নীচে বর্ণিত টিকানাতে এলএলপি-এর অফিসে
পাঠাতে পারেন।

গুয়াডারফুল ডিলার এলএলপি
প্রথমে বেঙ্গলুরু কান্দেই, ঘর নং ৫৫ ডুপেঞ্জ বোস
আর্ডিনিউ, স্ট্যাট ২ বি, ৩য় তল,
কলকাতা-৭০০ ০০৪

গুয়াডারফুল ডিলার এল এল পি-এর পক্ষে
স্বাঃ/
প্রদীপকুমার আগারওয়াল
তারিখ: ০৬.১১.২০২০ মনোনীত অংশীদার
স্থান: কলকাতা 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: লাইটসেল ডিনকম এলএলপি
(L.LPIN: AAT-8267) দ্বারা রেজিস্টার্ড অফিস
প্রথমে বেঙ্গলুরু কান্দেই, ঘর নং ৫৫, ডুপেঞ্জ বোস
আর্ডিনিউ, স্ট্যাট ২ বি, ৩য় তল, কলকাতা-৭০০ ০০৪
জনসাধারণকে এতদ্বারা বিজ্ঞপ্তি জানান করা হচ্ছে যে,
এল এল পি লিমিটেড লাইবেলিটি পার্টনারশিপ আর্জি
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 স্বীকৃত
ক্ষম 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 বিরোধিতার কারণ উল্লেখ করে হালফনামা সহ সমন্বিত
আপত্তিসমূহ পাঠাতে পারেন তৎসহ নীচে বর্ণিত
টিকানাতে এলএলপি-এর অফিসে পাঠাতে পারেন।

লাইটসেল ডিনকম এলএলপি

ভারত সরকার হইতে পঃ বঃ রাজ্যের
পুরুলিয়া 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 ফ্লিন), ইস্তাকসন
ফারনেসের (৩ x ২৫ টি), ক্যাপাসিটি
রিভিশন অনুমোদিত ৬০০ TPD হইতে
১০০০ TPD রোলিং মিল সঙ্গে ৭ MW
ক্ষমতা সম্পন্ন ক্যাপিটিভ পাওয়ার প্লান্ট
(WHRB ভিত্তিক ইউটাইলিইজিং ওয়েস্ট
হিট হইতে প্রস্তুত স্পঞ্জ প্লান্ট) এবং
প্রোডিউসার গ্যাস প্লান্ট (১২ x ৪০০০
Nm³/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।

ব্রাজো স্পঞ্জ আয়রন প্রাঃ লিঃ
Sd/-

ফর্ম নং- আই এন সি-২৩
কোম্পানিজ (ইনকর্পোরেশন) রুলস, ২০১৪-এর রুল
৩০ অনুযায়ী

এক রাজ্য থেকে অন্য রাজ্যে কোম্পানির রেজিস্টার্ড অফিস
পরিবর্তন উপলক্ষে সংবাদপত্রে বিজ্ঞাপন প্রকাশ
রিজিওনাল ডিরেক্টর, ইস্টার্ন রিজিয়ন, কলকাতা সমীপে
কোম্পানি আইন, ২০১৩-এর ১৩ ধারা (৪) উপধারা
অনুসারে এবং কোম্পানিজ (ইনকর্পোরেশন) রুলস,
২০১৪-এর রুল ৩০-এর সাব-রুল (১) উপধারার রুল
(৫) অনুসারে

এবং
নিম্নোক্ত সম্পর্কে: ইমেজ ক্রিয়েশন শাফিন প্রাইভেট
লিমিটেড (CIN: U17122WB2008PTC123209),
রেজিস্টার্ড অফিস: ৪১/১বি, হরহাসল সে সেন, ২য় তল, ঢাকা
পল্লি নিকটে, কলকাতা-৭০০ ০০৭, পশ্চিমবঙ্গ

...আবেদনকারী
এতদ্বারা জনসাধারণের প্রতি বিজ্ঞপ্তি জারি করা হচ্ছে
যে, 'পশ্চিমবঙ্গ রাজ্য' থেকে 'জার্সি রাজ্যে' রেজিস্টার্ড
অফিস স্থানান্তরের উদ্দেশ্যে ৩ অক্টোবর, ২০২০ তারিখে
অনুমতি বিশেষ সাধারণ সভায় গৃহীত বিশেষ প্রস্তাব অনুযায়ী
কোম্পানির সল্যাম্বোরের রুলবলয়ের অনুমোদন গ্রহণ করা
করে কোম্পানিজ আর্জি, ২০১৩-এর ১৩ ধারা অনুসারে কোম্পানি
সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন করার
প্রস্তাব করেছেন।

কোম্পানির রেজিস্টার্ড অফিসের প্রস্তাবিত পরিবর্তনের ফলে
স্বীকৃত ক্ষম হওয়ার সম্ভাবনা আছে এমন কোনও ব্যক্তি
এই বিজ্ঞপ্তি প্রকাশের তারিখ থেকে ১৪ (চৌদ্দ) দিনের মধ্যে
এমএস-২১ পোর্টাল (www.mca.gov.in)-এ ইন্ডেন্টের
রুমসেইন ফর্ম পূরণ করে অবশ্য রেজিস্টার্ড ডাকঘাণ্ডে
রিজিওনাল ডিরেক্টর, ইস্টার্ন রিজিয়ন, ২৩৪/৪, অর্ডার জার্নাল
৪৯ বেস রোড, নিজাম প্যালেস, II এম এস ও বিল্ডিং, ৪র্থ
তল, কলকাতা-৭০০ ০২০-এর কাছে তারিখের (পুং/স্ত্রী)
স্বার্থের ধরন এবং বিরোধিতার কারণ উল্লেখ করে একটি
হালফনামা দ্বারা সমন্বিত আপত্তিসমূহ পাঠাতে পারেন, তৎসহ
ওপরে বর্ণিত টিকানাতে অবস্থিত অফিসে, আবেদনকারী
কোম্পানির কাছেও একটি কপি পাঠাতে পারেন। যার
টিকানা- রেজিস্টার্ড অফিস- ৪১/১বি, হরহাসল সে সেন, ২য়
তল, ঢাকা পল্লি নিকটে, কলকাতা-৭০০ ০০৭, পশ্চিমবঙ্গ

আবেদনকারী
ইমেজ ক্রিয়েশন শাফিন প্রাইভেট লিমিটেড-এর পক্ষে
স্বাঃ মনোজ কুমার জৈন
তারিখ: ০৭.১১.২০২০ ডিরেক্টর
স্থান: কলকাতা DIN: 01834584

ফর্ম নং- আইএনসি-২৫এ

কেন্দ্রীয় সরকার, রিজিওনাল ডিরেক্টর, ইস্টার্ন 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, এডভান্সড, ৪৬/সি, চৌরঙ্গি রোড,
কলকাতা-৭০০ ০৭২, 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
সল্যাম্বোরের রুলবলয়ের অনুমোদন গ্রহণ করা
করে কোম্পানিজ আর্জি ২০১৩-এর ১৪ ধারা অনুসারে কেন্দ্রীয়
সরকার-এর কাছে সংশ্লিষ্ট কোম্পানি একটি আবেদন
করার প্রস্তাব করেছেন।

কোম্পানির রেজিস্টার্ড অফিসের প্রস্তাবিত স্ট্যাটাস
পরিবর্তনের ফলে স্বীকৃত ক্ষম হওয়ার সম্ভাবনা আছে
এমন কোনও ব্যক্তি এই বিজ্ঞপ্তি প্রকাশের তারিখ
থেকে চৌদ্দো দিনের মধ্যে রিজিওনাল ডিরেক্টর, ইস্টার্ন
রিজিয়ন, ২৩৪, এ জে সি বোস রোড, নিজাম প্যালেস,
II এমএস ও বিল্ডিং, ৪র্থ তল, কলকাতা-৭০০০২০-
এর কাছে তারিখের (পুং/স্ত্রী) স্বার্থের ধরন এবং
বিরোধিতার কারণ উল্লেখ করে একটি হালফনামা দ্বারা
সমন্বিত আপত্তিসমূহ রেজিস্টার্ড ডাকঘাণ্ডে পাঠাতে
পারেন, তৎসহ নিচে বর্ণিত টিকানাতে অবস্থিত অফিসে,
আবেদনকারী কোম্পানির কাছেও একটি কপি পাঠাতে

Annexure-15

**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 : VIII-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 : cmdsip1@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
Authority : MoEFCC
Name of Authorized Person : DEEPAK KUMAR AGARWAL
:
Designation of Authorized Person : Director



E- Verification Completed

RESPONSE OF THE PROJECT PROPONENT

Proposal No : IA/WB/IND/125425/2015
Registered Email Id : cmdsip1@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