



Six Monthly Compliance Report (October 2021 to March 2022)	
Environmental Clearance	F. No. J-11011/378/2009-IA II (I) dated June 21, 2010

Contents

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2. Six Monthly Compliance Report (Oct'2021 – March'2022)

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Shree Ambey Ispat Pvt. Ltd.

CIN: U27100WB2009PTC135162

PLANT DETAILS	
Project	Ferro Alloy Plant
Project Location	Mouza : Basudevpur (North) PO: Hat Asuria, PS: Barjora Dist: Bankura, West Bengal
Project Proponent	Shree Ambey Ispat Pvt Ltd 4, B.B.D. Bag (East) 5 th Floor, Room No: 90, Stephen House, Kolkata – 700 001, West Bengal
Constitution	Private Limited Company
Year of Incorporation	2009
Main Plant	1 X 9 MVA Submerged Arc Furnace
Installed Capacity	Ferro Manganese : 22,600 TPA Silico Manganese : 17,400 TPA Ferro Silicon : 7,600 TPA
Land	Total Land Area : 15 acres
Proposed Greenbelt	4.9 acres
Water Quantity	20 KLD; Source: Surface Water
Pollution Control Measures	Bag Filter
Solid Waste	Fines collected at Cyclone cum Bag Filter are re-used in the process. Slag produced in Si-Mn production is used in land / road development.
Power	8 MVA Source : Damodar Valley Corporation D.G.Set : 1 No – Standby during Power Failure for lighting load
Year of Commissioning of Plant	24 th February, 2014



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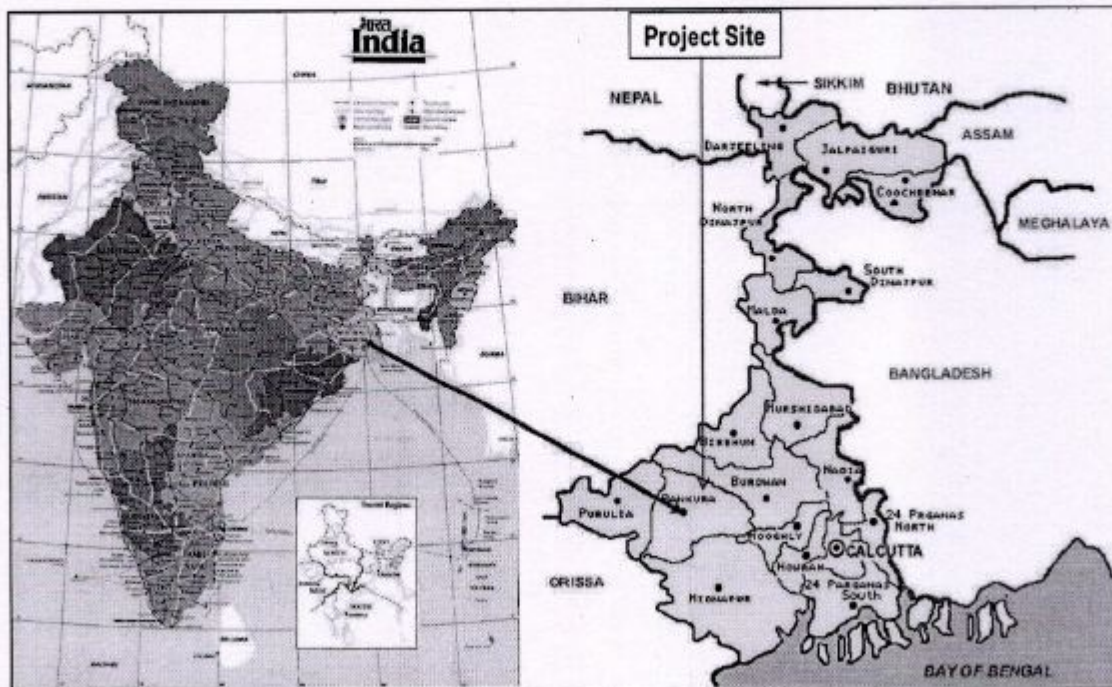


Fig – 1 : General Location of Plant



Shree Ambey Ispat Pvt. Ltd.

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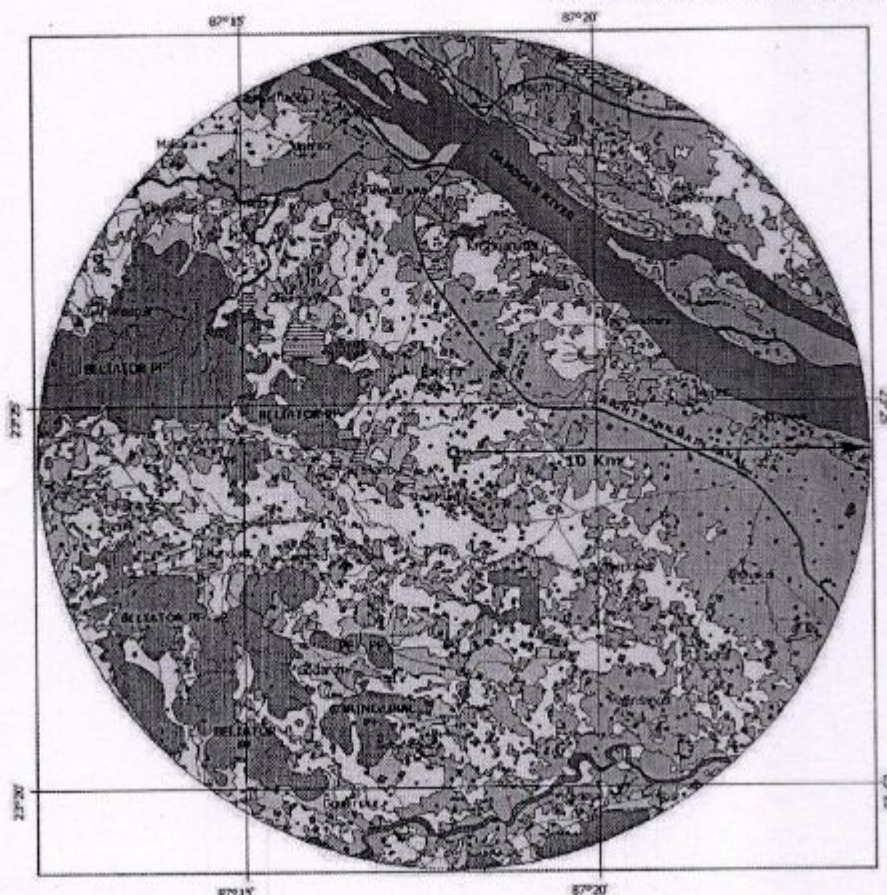


Fig – 2 : Topographic Map

Site Location	Mouza : Basudevpur (North) , P. S. : Barjora, District : Bankura, West Bengal
Latitude	23 ⁰ 24' 26.36" N
Longitude	87 ⁰ 17' 49.99" E
Height above msl	78 m
Nearest Major Town	Durgapur
Nearest State Highway	Durgapur – Bankura State Highway
National Highway	NH – 2
Nearest Major River	River Damodar
Nearest Railway Station	Durgapur
Nearest Airport	Andal / Kolkata
There is no National Park, Wildlife Sanctuary, Reserve Forest within 10 km radius of the Project Site	



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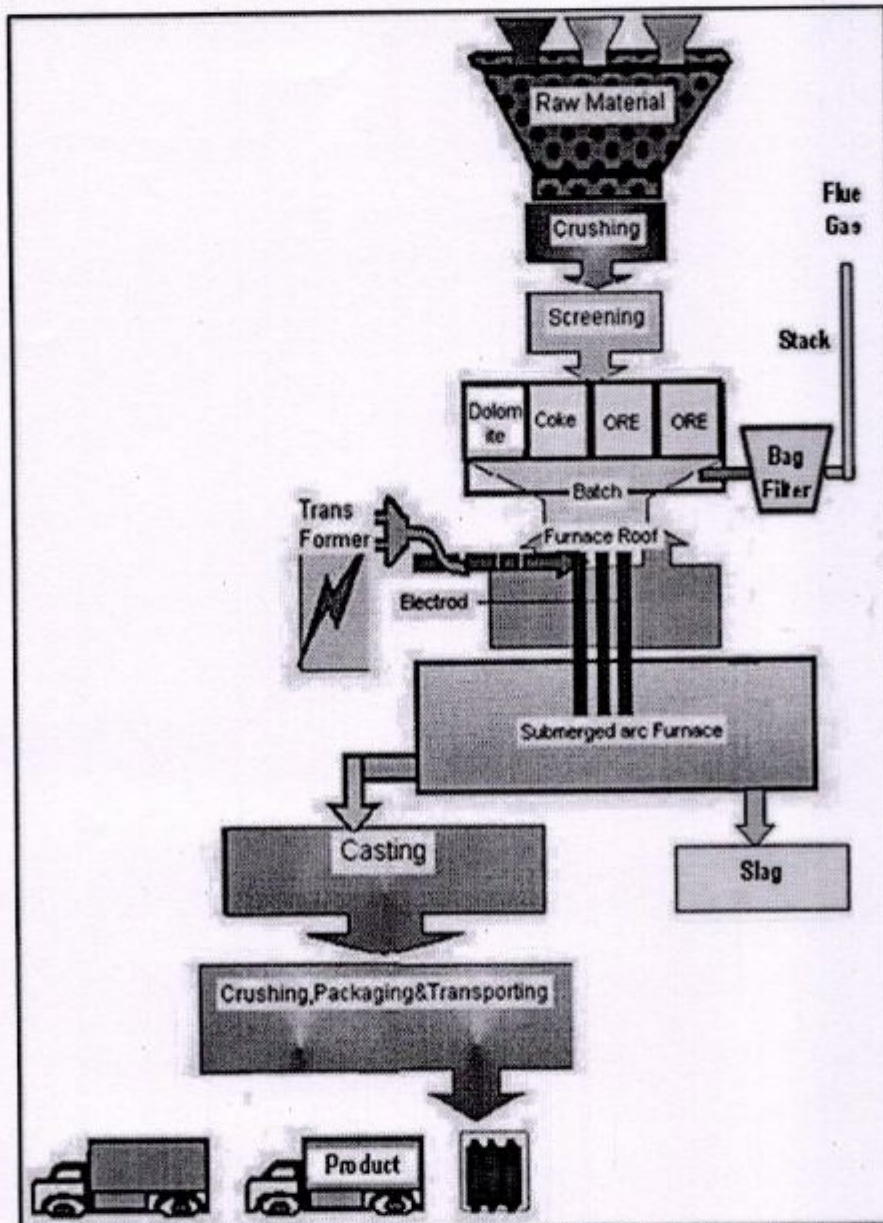


Fig – 3 : Process Flow Diagram of Ferro Alloys Plant



Plant is based on Zero Liquid Effluent Discharge

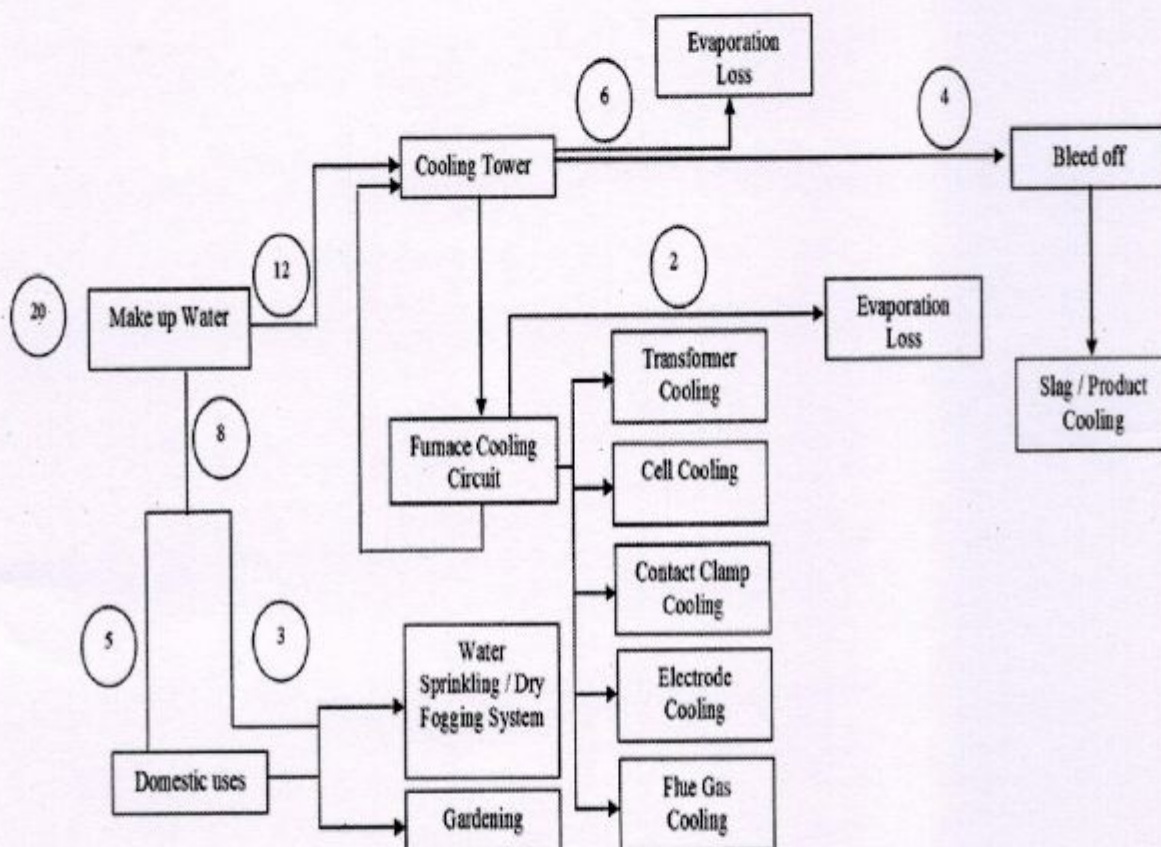


Fig – 4 : Water Balance Diagram



SIX MONTHLY COMPLIANCE REPORT

Sl.	Conditions	Remarks
A : SPECIFIC CONDITIONS		
1.	Continuous monitoring facilities for all the stacks and sufficient air pollution equipment viz. Fume extraction system with bag filters, I. D. Fan and stack of adequate height to submerged arc furnace shall be provided to control emissions below 50 mg/Nm ³ . At no time, the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	Air pollution control equipment viz. fume extraction system with bag filters, induced draft (ID) and stack of adequate height to Submerged Arc Furnace has been provided to control emissions below 50 mg/Nm ³ .
2.	Ambient air quality monitoring stations shall be set up as per statutory requirement in consultation with the WBPCB. Ambient air quality including ambient noise levels shall not exceed the standards stipulated under EPA or by the State authorities. The instruments used for ambient air quality monitoring shall be calibrated time to time.	Ambient air quality has been monitored at three (3) locations twice during the period. The results are attached. All the data are within permissible limits. (pages II-IV and XI-XIII) Results of noise monitoring data are also attached- pages-VI and XV)
3.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 November, 2009 shall be followed.	Noted, ambient air quality has been monitored and is within permissible norms of NAAQS.
4.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emission) or critical sectoral parameters, Indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the	All the rules and regulations as per environmental acts and rules including statutory conditions like monitoring data, compliance report will be complied with. Result of Stack monitoring data is attached at pages I and X.



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Sl.	Conditions	Remarks
	company in the public domain.	
5.	Secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits Issued by the Ministry and regularly monitored. Guidelines / Code of Practice issued by the CPCB shall be followed.	The effective utilization with design criteria has been considered for emission control measures to comply with source emission norms and to have minimum fugitive emission in the work-zone. The effective emission control equipment has been provided to reduce fugitive emission during tapping operation. Result of fugitive emission monitoring data is attached at pages V and XIV.
6.	In-plant control measures for checking fugitive emission from all the vulnerable sources shall be provided. Highly efficient bag filters shall be provided at all material transfer points. Dust suppression system like water spraying shall be provided at unloading and raw material handling areas, storage yards, to control fugitive dust emissions to meet the WBPCB norms.	The exit point of tapping operation is enclosed and a suction hood is attached and connected to the main bag filter system with heat exchanger, I. D. fan to control fugitive emission during tapping operation. Water sprinkler is used to control fugitive emission in raw material handling section, material transfer point, loading – unloading area etc.
7.	No charcoal shall be used as fuel. Pet coke shall be used as fuel instead of charcoal from unknown sources.	Charcoal and Coke is not being used as Fuel
8.	Prior permission for the drawl of 20 m ³ /day water from competent authority should be obtained. Total water requirement shall not exceed 20m ³ /d. Entire process water shall be kept in closed circuit to reduce water consumption. The wastewater from all the sources shall be collected and treated and treated wastewater shall be recycled/ reused in the process and/or used for dust suppression and green belt development. No process water shall be discharged outside the premises and zero discharge shall be strictly followed.	The plant is designed on the basis of zero effluent discharge and no effluent is discharged outside the plant boundary. Closed circuit cooling system has been adopted to maximize recycle and reuse of water which is mainly for circuit cooling purposes and to reduce the quantity of make-up water consumption. Bleed off from cooling tower is used for slag cooling and domestic wastewater after septic tank is being utilized for green belt development. Water balance diagram is shown



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Sl.	Conditions	Remarks
		in Fig. - 4.
9.	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Rain Water Harvesting system is installed to maximize the use of rain water in the plant. Current make up water quantity is approx 10 - 11 KLD
10.	Regular monitoring of influent and effluent surface, sub-surface and ground water should be ensured and treated wastewater shall meet the norms prescribed by the State Pollution Control Board or described under the E(P) Act whichever are more stringent. Leachate study for the effluent generated and analysis shall also be regularly carried out and report submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.	The plant is based on the basis of zero effluent discharge and no effluent is discharged outside the plant boundary. Closed circuit cooling system has been already adopted to maximize recycle and reuse of water which is mainly for circuit cooling purposes and to reduce the quantity of make-up water consumption. Bleed off from cooling tower is used for slag cooling and domestic wastewater after septic tank is being utilized for green belt development. Result of Waste water and Ground water monitoring data is attached as Annexure - 5 and Annexure - 6 respectively.
11.	Slag produced In Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn).	Noted.
12.	All the ferro alloy slag shall be used for land filling inside the plant or used as building material only after passing through Toxic Chemical Leachability Potential (TCLP) test. Otherwise, hazardous substances should be recovered from the slag and output waste and be disposed In secured landfill as per CPCB guidelines.	The solid waste i.e. slag generated from Si-Mn production is utilized in road / area / land development in and around the plant premises. As per MOEF Notification S.O. : 2265 (E) dated 24 th September 2008, all high volume low effect wastes such as slags from pyrometallurgical processes are non-hazardous. TCLP test is performed before utilization of slag in road/land development.
13.	No Ferro chrome shall be manufactured without prior approval of the Ministry.	Noted, no Fe-Cr will be produced.



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Sl.	Conditions	Remarks
14.	Proper handling, storage, utilization and disposal of all the solid waste shall be ensured and regular report regarding toxic metal content in the waste material and its composition, end use of solid/hazardous waste shall be submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB.	The solid waste i.e. generated from Si-Mn production is being utilized in road / area / land development in and around the plant premises. As per MOEF Notification S.O. : 2265 (E) dated 24 th September 2008, all high volume low effect wastes such as slags from pyrometallurgical processes are non-hazardous.
15.	As proposed, green belt shall be developed in 4.9 acres out of total 15 acres land available in and around the plant premises to mitigate the effects of fugitive emission all around the plant as per the CPCB guidelines in consultation with DFO.	Green belt is already developed in the area of about 4.9 acres in the plant.
16.	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, WBPCB and CPCB within 3 months of Issue of environment clearance letter.	Risk and hazard identification along with mitigation measures are in place.
17.	Recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the Ferro Alloy Units shall be strictly implemented.	Relevant norms and measures w.r.t. CREP guidelines for Ferro Alloy Plant are complied.
18.	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 30th November, 2009 shall be satisfactorily implemented and a separate budget for implementing the same shall be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	All the commitments during the Public Hearing have been considered in environmental management plan and corporate social responsibility.
19.	At least 5 % of the total cost of the project shall be earmarked towards the corporate social responsibility and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	Item-wise fund allocation has been considered for successful implementation of the corporate social responsibility. Different activities under CSR head are going on in time bound manner as per activities and time line mentioned in the Environmental Clearance.



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Sl.	Conditions	Remarks
20.	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile tenets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	During construction phase of the plant, all the necessary facilities were provided to the labours which were mainly from the nearby area only.

Sl.	Conditions	Remarks
B : GENERAL CONDITIONS		
i.	The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government.	All the conditions mentioned in the Consent to Establish and Consent to Operate issued by West Bengal Pollution Control Board are being complied with.
ii.	No further expansion or modification of the plant shall be carried out without prior approval of this Ministry.	Prior approval will be obtained from MOEFCC before any expansion or modification.
iii.	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th May, 1993 and standards prescribed from time to time. The WBPCB may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location. At no time the emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	The plant is operating 1 X 9 MVA Submerged Arc Furnace and a bag filter system had been provided to comply with stack emission norms.
iv.	The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Acoustic enclosures have been provided to control work-zone noise levels and through adoption of adequate protective measures, i.e., use of personal protective equipment (ear plugs, ear muffs etc.). Result of noise monitoring data is attached at pages VI and XV.



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Sl.	Conditions	Remarks
v.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	All the regulations as per Factory Act w.r.t. personal protective equipment, sanitation facilities, occupational health surveillance of the workers are being done and records are maintained as compliance.
vi.	All the environment management measures given in the EIA/EMP shall be implemented and complied with.	All the pollution control measures towards environment management measures as mentioned in the EIA/EMP Report are being complied with.
vii.	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain Water Harvesting system is installed to maximize the use of rain water in the plant. Current make up water quantity is approx 10 – 11 KLD
viii.	Proper housekeeping and adequate occupational health programmes shall be taken up as per the Factory Act	A team of personnel have been earmarked to keep the plant premises clean and safe. Occupational health monitoring programme are regularly monitored.
ix.	The company shall undertake eco-development measures including community welfare measures in the project area.	Greenbelt development and rainwater harvesting have already been completed including Corporate Social Responsibility as a part of community welfare in association with local authorities.
x.	A separate environmental management cell to carry out various management and monitoring functions shall be set up under the control of Senior Executive.	All environmental monitoring activities for effective implementation of environmental management plan is being carried out under the direct supervision of Plant Head. A Separate Environment Cell had been constituted to look after monitoring of various pollution control measures.
xi.	As proposed, Rs. 150.00 Lakhs shall be earmarked towards total capital cost and recurring	The funds earmarked towards the capital cost as well as recurring



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Sl.	Conditions	Remarks
	cost/annum for environmental pollution control measures and used judiciously to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government. The funds so provided shall not be diverted for any other purpose.	cost for pollution control measures are being used to implement the conditions stipulated by the Statutory Authorities.
xii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF, the respective Zonal Office of CPCB and the WBPCB. The criteria pollutant levels namely; SPM, RSPM, SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	The environmental report is submitted to Regional office of MOEF, the respective Zonal Office of CPCB and the WBPCB.
xiii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MOEF, the respective Zonal Office of CPCB and the WSPCB. The Regional Office of this Ministry at Bhubaneswar /CPCB/WBPCB shall monitor the stipulated conditions.	All the rules and regulations as per environmental acts and rules including statutory conditions like monitoring data, compliance report are complied.
xiv.	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company alongwith the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.	Noted.



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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TEST REPORT OF STACK GAS ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Page : 1/1

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/21-22/0344	Laboratory Ref. No.	: AS-239-2021(5)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 19.11.2021
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 10.11.2021
Sample Description	: Stack Air	Analysis Started On	: 11.11.2021
Location	: Submerged Electric Arc Furnace	Analysis Completed On	: 11.11.2021
Sample Condition	: In GMF Thimble	Time of Sampling	: 11:10 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		

A. GENERAL INFORMATION ABOUT STACK

01. Particulars of plant	: Ferro Alloys Plant		
02. Stack connected to	: S.E.A.F.		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 38.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 29.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.8		
08. Emission due to	: Reduction of Mn Ore		
09. Steam generation capacity:	(rated) : ---	(running) : ---	
10. Load of source:	(rated) : 9 MVA	(running) : 8.0 MVA	

B. FUEL CHARACTERISTIC REPORT

01. Type of fuel used	: Electricity		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		

C. RESULTS OF GASEUS EMISSION SAMPLING

01. Flue gas temperature ($^{\circ}$ C)	: 71
02. Barometric pressure (mm of Hg)	: 755.0
03. Velocity of flue gas (m/sec)	: 9.15
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 45408.92
05. Concentration of Particulate Matter (mg/Nm^3)	: 37.84
06. Particulate Matter normalized at 12% CO_2	: ---
07. Concentration of SO_2 (mg/Nm^3)	: ---
08. Concentration of NO_2 (mg/Nm^3)	: ---
09. Concentration of CO_2 (% V/V)	: 2.0
10. Concentration of CO (% V/V)	: < 1.0

Pollution Control Device	: Cyclone, Heat Exchanger & Bag Filter
Permanent Ladder and Platform	: Yes

Checked by Junior Scientist

[Signature]

Authorised Signatory

[Signature]

For, GREENVISION

- Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.
2. All the information under column A & B are supplied by the respective industry.
3. This certificate may not be reproduced in part or full without written permission of the management.
4. Retention period of tested sample (Thimble) is 6 months from the date of issue test report unless otherwise specified.

City Office : 3/45. Viveknagar, Jadavpur, Kolkata-700 075, Ph. : 9433158173

Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 9593474712 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/21-22/0340	Laboratory Ref. No.	: AS-239-2021(1)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 19.11.2021
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 10.11.2021 to 11.11.2021
Sample Description	: Ambient Air	Analysis Started On	: 12.11.2021
Location	: Near Main Gate	Analysis Completed On	: 12.11.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 09:20 am to 09:20 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$)	: 21.5
Average Relative Humidity (%)	: 64.0
Barometric Pressure (mm of Hg)	: 755.0
Smell or Odour	: No Remarkable Smell
Weather Condition	: Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	75.42
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	38.86
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.42
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.18
05.	Concentration of CO	mg/m^3	0.503

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

Junior Scientist

Praty...
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Authorised Signatory

S. Roy Chowdhury
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by **M/s. Greenvision**

Report No.	: GV/AR/21-22/0341	Laboratory Ref. No.	: AS-239-2021(2)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 19.11.2021
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 10.11.2021 to 11.11.2021
Sample Description	: Ambient Air	Analysis Started On	: 12.11.2021
Location	: Back Side of the Plant (Near boundary Wall)	Analysis Completed On	: 12.11.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 09:40 am to 09:40 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001,Reaffirmed 2017,IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 21.5
 Average Relative Humidity (%) : 64.0
 Barometric Pressure (mm of Hg) : 755.0
 Smell or Odour : No Remarkable Smell
 Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	71.84
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	36.32
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.16
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.84
05.	Concentration of CO	mg/m^3	0.316

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18 th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

Junior Scientist

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Signatory Authority
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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/21-22/0342	Laboratory Ref. No.	: AS-239-2021(3)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 19.11.2021
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 10.11.2021 to 11.11.2021
Sample Description	: Ambient Air	Analysis Started On	: 12.11.2021
Location	: Hatasuria Village	Analysis Completed On	: 12.11.2021
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 10:05 am to 10:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$)	: 21.0
Average Relative Humidity (%)	: 64.0
Barometric Pressure (mm of Hg)	: 755.0
Smell or Odour	: No Remarkable Smell
Weather Condition	: Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	64.38
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	31.96
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	8.76
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.62
05.	Concentration of CO	mg/m^3	0.274

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by

Junior Scientist

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Authorised Signatory

S. Ray Chowdhury
For, GREENVISION

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TEST REPORT OF FUGITIVE AIR ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/21-22/0343

Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.

Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Sample Description : Fugitive Air

Location : Furnace Area

Sample Condition : In GMF Filter Paper & Plastic Bottle

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2), Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

Laboratory Ref. No. : AS-239-2021(4)

Report Date : 19.11.2021

Date of Sampling : 10.11.2021

Analysis Started On : 11.11.2021

Analysis Completed On : 11.11.2021

Time of Sampling : 10:30 am to
06:30 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 22.3

Barometric Pressure (mm of Hg) : 755.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of RSPM	$\mu\text{g}/\text{m}^3$	652.14
02.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1538.46
03.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	9.64
04.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	40.28

Checked by

Junior Scientist

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com



TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
 Report No. : GV/NL/21-22/075
 Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.
 Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
 Dist. : Bankura, Pin : 722204.
 Sample Description : Noise Level
 Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 dB(A)
 { Source : The Noise Pollution (Regulation and Control) Rules, 2000 }
 Monitoring Details : Distance from Object : 3.0 Mtr.
 Height from the Ground : 1.5 Mtr.
 Category of Area : Industrial Area

Laboratory Ref. No. : NLM-059-2021
 Report Date : 19.11.2021
 Date of Sampling : 10.11.2021 to 11.11.2021
 Total Time : 1 Hr.

Sl. No.	Location	Noise Level dB (A)					
		Day Time			Night Time		
		Max.	Min.	Leq.	Max.	Min.	Leq.
01.	Near Main Gate	71.8	65.2	69.8	64.7	57.5	62.0
02.	Back Side of the Plant (Near Boundary Wall)	68.6	61.4	66.3	60.2	53.6	57.7
03.	Hat Asuria Village	62.0	54.4	59.5	51.8	43.4	48.1

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end of the report

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Branch Office : Durgachak, Haldia, Purba Medinipur, Ph. : 9593474712 M.N. Sarkar Road, Mahananda Para, Siliguri-734001



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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

Report No. : GV/WW/21-22/121

Laboratory Ref. No. : WS-145-2021

Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.

Report Date : 19.11.2021

Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Date of Sampling : 10.11.2021

Sample Description : Waste Water

Analysis Started on : 11.11.2021

Location : Final Outlet Near Boundary Wall

Analysis Completed on : 15.11.2021

Sample Condition : In Glass Bottle & Plastic Bottle

Time of Sampling : 03:15 pm

Type of Sample : Domestic Waste Water

Sampling & Preservation Method : APHA 23rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	RESULTS
pH	APHA 23 rd EDITION, 4500-H+B	---	7.16
Total Suspended Solid(TSS)	APHA 23 rd EDITION, 2540 D	mg/l	19.0
Chemical Oxygen Demand (COD)	APHA 23 rd EDITION, 5220 B	mg/l	44.0
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	7.64
Oil & Grease	APHA 23 rd EDITION, 5520 A	mg/l	< 5.0

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S. Roy Chowdhury

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	: M/s. Greenvision	Laboratory Ref. No.	: GS-052-2021
Sample identification mark	: Nil	Report Date	: 19.11.2021
Report No.	: GV/GW/21-22/086	Date of Sampling	: 10.11.2021
Issued To	: M/s. Shree Ambey Ispat Pvt. Ltd.	Analysis Started on	: 11.11.2021
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Analysis Completed on	: 17.11.2021
Sample Condition	: In Glass Bottle & Plastic Bottle	Time of Sampling	: 03:40 pm
Sample Description	: Ground Water		
Sampling Method	: APHA 23 rd EDITION, 1060		
Location	: Bore Well Inside Plant Premises		

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	7.45	6.5 to 8.5	No Relaxation	APHA 23 rd Edition 4500-H ⁺ B
2.	Colour	Hazen	1.0	5.0	15.0	APHA 23 rd Edition 2120 B
3.	Odour	-	Agreeable	Agreeable	Agreeable	APHA 23 rd Edition 2150 B
4.	Taste	-	Agreeable	Agreeable	Agreeable	APHA 23 rd Edition 2160 A
5.	Turbidity	N.T.U.	0.68	1	5	APHA 23 rd Edition 2130 B
6.	Conductivity	µS/cm	288.0	-	-	APHA 23 rd Edition, 2510 B
7.	Total Dissolved Solid (TDS)	mg/L	208.0	500	2000	APHA 23 rd Edition 2540 C
8.	Total Hardness as CaCO ₃	mg/L	78.0	200	600	APHA 23 rd Edition 2340 C
9.	Chloride as Cl	mg/L	14.42	250	1000	APHA 23 rd Edition 4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	74.0	200	600	APHA 23 rd Edition 2320 B
11.	Sulfate as SO ₄	mg/L	15.24	200	400	APHA 23 rd Edition 4500 SO ₄ ²⁻ E
12.	Nitrate as NO ₃ ⁻	mg/L	4.2	45.0	No Relaxation	APHA 23 rd Edition 4500 NO ₃ ⁻
13.	Fluoride as F	mg/L	BDL	1	1.5	APHA 23 rd Edition 4500 FD



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14.	Calcium as Ca	mg/L	21.14	75	200	APHA 23 rd Edition 3500- Ca B
15.	Magnesium as Mg	mg/L	7.36	30	100	APHA 23 rd Edition 3500- Mg B
16.	Iron as Fe	mg/L	0.12	0.3	No Relaxation	APHA 23 rd Edition, 3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	APHA 23 rd Edition, 4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	APHA 23 rd Edition 3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	APHA 23 rd Edition, 3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	APHA 2123 rd Edition 3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	APHA 23 rd Edition, 3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	APHA 23 rd Edition, 4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	APHA 23 rd Edition, 3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.01	No Relaxation	APHA 23 rd Edition, 3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	APHA 23 rd Edition, 3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	APHA 23 rd Edition, 3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	APHA 23 rd Edition, 3500-Hg
28.	Total Coliform / 100ml.	-	<1,<10,<100	Absent	Absent	APHA 23 rd Edition, 9221 B
29.	E. Coli / 100ml	-	<1,<10,<100	Absent	Absent	APHA 23 rd Edition, 9221 F

BDL stands for Below Detectable Limit

*<1, indicates No Colony Developed in 1 ml Sample

*<10, indicates No Colony Developed in 0.1 ml Sample

*<100, indicates No Colony Developed in 0.01 ml Sample

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF STACK GAS ANALYSIS

Page : 1/1

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision			
Report No.	: GV/AR/21-22/0624	Laboratory Ref. No.	: AS-114-2022(5)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 07.04.2022
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 25.03.2022
Sample Description	: Stack Air	Analysis Started On	: 26.03.2022
Location	: Submerged Electric Arc Furnace	Analysis Completed On	: 26.03.2022
Sample Condition	: In GMF Thimble	Time of Sampling	: 11:30 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:11255 (Part 1), 1985, Reaffirmed 2014, IS:11255 (Part 3), 2008, IS:11255 (Part 2), 1985, Reaffirmed 2014, IS:13270:1992, Reaffirmed 2014		
A. GENERAL INFORMATION ABOUT STACK			
01. Particulars of plant	: Ferro Alloys Plant		
02. Stack connected to	: S.E.A.F.		
03. Material of construction	: M.S.		
04. Shape of stack	: Circular		
05. Height of stack from G.L (mtr)	: 38.0	from roof level (mtr)	: ---
06. Height of sampling from G.L (mtr)	: 29.0	from L.D.Z (mtr)	: ---
07. Internal stack diameter at sampling point (mtr)	: 1.8		
08. Emission due to	: Reduction of Mn Ore		
09. Steam generation capacity:	(rated) : ---	(running) :	---
10. Load of source:	(rated) : 9 MVA	(running) :	7.8 MVA
B. FUEL CHARACTERISTIC REPORT			
01. Type of fuel used	: Electricity		
02. Calorific value (K-Cal/Kg): ---	03. Ash content (% by Wt): ---	04. Sulphur content (% by Wt): ---	
05. Rated fuel consumption	: ---		
06. Working fuel consumption	: ---		
C. RESULTS OF GASEUS EMISSION SAMPLING			
01. Flue gas temperature ($^{\circ}$ C)	: 68		
02. Barometric pressure (mm of Hg)	: 755.0		
03. Velocity of flue gas (m/sec)	: 6.32		
04. Quantity of gas flow ($\text{Nm}^3/\text{hr.}$)	: 49316.88		
05. Concentration of Particulate Matter (mg/Nm^3)	: 32.16		
06. Particulate Matter normalized at 12% CO_2	: ---		
07. Concentration of SO_2 (mg/Nm^3)	: ---		
08. Concentration of NO_2 (mg/Nm^3)	: ---		
09. Concentration of CO_2 (% V/V)	: 2.2		
10. Concentration of CO (% V/V)	: < 1.0		
Pollution Control Device	: Cyclone, Heat Exchanger & Bag Filter		
Permanent Ladder and Platform	: Yes		

Checked by **Junior Scientist**

Authorized Signatory

S. Roy Chowdhury
For, GREEN VISION

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No.	: GV/AR/21-22/0620	Laboratory Ref. No.	: AS-114-2022(1)
Issued to	: M/s. Shree Ambey Ispat Pvt. Ltd.	Report Date	: 07.04.2022
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Date of Sampling	: 25.03.2022 to 26.03.2022
Sample Description	: Ambient Air	Analysis Started On	: 28.03.2022
Location	: Near Main Gate	Analysis Completed On	: 28.03.2022
Sample Condition	: In GMF Filter Paper & Plastic Bottle	Time of Sampling	: 09:05 am to 09:05 am
Sampling Method	: CPCB, Emission Regulation (Part III)		
Test Method	: CPCB, Emission Regulation (Part III), IS:5182 (Part 2) 2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.		

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.0
Average Relative Humidity (%) : 68.0
Barometric Pressure (mm of Hg) : 755.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	81.14
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	42.06
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.75
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.48
05.	Concentration of CO	mg/m^3	0.416

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by Junior Scientist

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Signatory Authority
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For GREENVISION
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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/21-22/0621

Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.

Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Sample Description : Ambient Air

Location : Back Side of the Plant (Near boundary Wall)

Sample Condition : In GMF Filter Paper & Plastic Bottle

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

Laboratory Ref. No. : AS-114-2022(2)

Report Date : 07.04.2022

Date of Sampling : 25.03.2022 to
26.03.2022

Analysis Started On : 28.03.2022

Analysis Completed On : 28.03.2022

Time of Sampling : 09:25 am to
09:25 am

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.0

Average Relative Humidity (%) : 68.0

Barometric Pressure (mm of Hg) : 755.0

Smell or Odour : No Remarkable Smell

Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	74.26
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	38.32
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.48
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	40.16
05.	Concentration of CO	mg/m^3	0.268

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009

PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by Junior Scientist

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TEST REPORT OF AMBIENT AIR ANALYSIS

FORMAT NO. : GV/LAB/FM/33A

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/21-22/0622
Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.
Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Laboratory Ref. No. : AS-114-2022(3)
Report Date : 07.04.2022
Date of Sampling : 25.03.2022 to
26.03.2022
Analysis Started On : 28.03.2022
Analysis Completed On : 28.03.2022
Time of Sampling : 09:50 am to
09:50 am

Sample Description : Ambient Air
Location : Hatasuria Village
Sample Condition : In GMF Filter Paper & Plastic Bottle

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2)2001, Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 33.0
Average Relative Humidity (%) : 68.0
Barometric Pressure (mm of Hg) : 755.0
Smell or Odour : No Remarkable Smell
Weather Condition : Clear Sky

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of PM ₁₀	$\mu\text{g}/\text{m}^3$	69.34
02.	Concentration of PM _{2.5}	$\mu\text{g}/\text{m}^3$	35.28
03.	Concentration of SO ₂	$\mu\text{g}/\text{m}^3$	9.05
04.	Concentration of NO ₂	$\mu\text{g}/\text{m}^3$	39.88
05.	Concentration of CO	mg/m^3	0.203

Limit : ($\mu\text{g}/\text{m}^3$) National Ambient Air Quality Standard, CPCB Notification, 18th November, 2009
PM₁₀ (24 Hrs) : 100, PM_{2.5} (24 Hrs.) : 60, SO₂ (24 Hrs.) : 80, NO₂ (24 Hrs.) : 80, CO : 4 (mg/m^3)

Checked by Junior Scientist

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF FUGITIVE AIR ANALYSIS

[FORMAT NO. : GV/LAB/FM/33A]

Sample is drawn by M/s. Greenvision

Report No. : GV/AR/21-22/0623

Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.

Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Sample Description : Fugitive Air

Location : Furnace Area

Sample Condition : In GMF Filter Paper & Plastic Bottle

Sampling Method : CPCB, Emission Regulation (Part III)

Test Method : CPCB, Emission Regulation (Part III), IS:5182 (Part 2), Reaffirmed 2017, IS:5182 (Part 6), Reaffirmed 2017.

Laboratory Ref. No. : AS-114-2022(4)

Report Date : 07.04.2022

Date of Sampling : 25.03.2022

Analysis Started On : 26.03.2022

Analysis Completed On : 26.03.2022

Time of Sampling : 10:20 am to
06:20 pm

A. METROLOGICAL INFORMATION

Average Temperature ($^{\circ}\text{C}$) : 35.0

Barometric Pressure (mm of Hg) : 755.0

B. RESULT OF ANALYSIS

Sl. No.	Parameters	Unit	Concentration
01.	Concentration of RSPM	$\mu\text{g}/\text{m}^3$	581.24
02.	Concentration of TSPM	$\mu\text{g}/\text{m}^3$	1406.38
03.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	9.82
04.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	40.6

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TEST REPORT OF NOISE LEVEL MONITORING

FORMAT NO. : GV/LAB/FM/33N

Sample is drawn by : M/s. Greenvision
Report No. : GV/NL/21-22/096
Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.
Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.
Sample Description : Noise Level
Noise Level Limit : Day Time : 75 dB(A), Night Time : 70 dB(A)
{ Source : The Noise Pollution (Regulation and Control) Rules, 2000}
Monitoring Details : Distance from Object : 3.0 Mtr.
Height from the Ground : 1.5 Mtr.
Category of Area : Industrial Area
Laboratory Ref. No. : NLM-017-2022
Report Date : 07.04.2022
Date of Sampling : 25.03.2022 to 26.03.2022
Total Time : 1 Hr.

Sl. No.	Location	Noise Level dB (A)					
		Day Time			Night Time		
		Max.	Min.	Leq.	Max.	Min.	Leq.
01.	Near Main Gate	73.4	67.0	71.5	63.3	55.7	60.1
02.	Back Side of the Plant (Near Boundary Wall)	70.0	63.2	67.8	59.5	52.0	56.3
03.	Hat Asuria Village	64.2	56.4	61.6	52.3	44.5	48.7

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For GREEN VISION

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end of the report

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Contact : 0343-2542377, 9732580459, 9433158173, email : greenvision.dgp@gmail.com, Website : www.greenvisiondurgapur.com

TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by M/s. Greenvision

Sample submitted and identified by customer as : N.A.

Report No. : GV/WW/21-22/238

Laboratory Ref. No. : WS-062-2022

Issued to : M/s. Shree Ambey Ispat Pvt. Ltd.

Report Date : 07.04.2022

Address : Vill. : Basudebpur, P.O. +P.S. : Barjora,
Dist. : Bankura, Pin : 722204.

Date of Sampling : 25.03.2022

Sample Description : Waste Water

Analysis Started on : 26.03.2022

Location : Final Outlet Near Boundary Wall

Analysis Completed on : 31.03.2022

Sample Condition : In Glass Bottle & Plastic Bottle

Time of Sampling : 02:45 pm

Type of Sample : Domestic Waste Water

Sampling & Preservation Method : APHA 23rd EDITION, 1060

PARAMETERS	TEST METHOD	UNIT	RESULTS
pH	APHA 23 rd EDITION, 4500-H+B	---	7.28
Total Suspended Solid(TSS)	APHA 23 rd EDITION, 2540 D	mg/l	16.0
Chemical Oxygen Demand (COD)	APHA 23 rd EDITION, 5220 B	mg/l	48.5
Biochemical Oxygen Demand (BOD)	IS:3025, P-44, 1993, Reaffirmed 2014	mg/l	8.12
Oil & Grease	APHA 23 rd EDITION, 5520 A	mg/l	< 3.0

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TEST REPORT OF WATER ANALYSIS

FORMAT NO. : GV/LAB/FM/33W

Sample is drawn by	: M/s. Greenvision	Laboratory Ref. No.	: GS-011-2022
Sample identification mark	: Nil	Report Date	: 07.04.2022
Report No.	: GV/GW/21-22/140	Date of Sampling	: 25.03.2022
Issued To	: M/s. Shree Ambey Ispat Pvt. Ltd.	Analysis Started on	: 26.03.2022
Address	: Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204.	Analysis Completed on	: 02.04.2022
Sample Condition	: In Glass Bottle & Plastic Bottle	Time of Sampling	: 03:15 pm
Sample Description	: Ground Water		
Sampling Method	: APHA 23 rd EDITION, 1060		
Location	: Bore Well Inside Plant Premises		

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed [APHA 23 rd EDITION]
				Acceptable Limit	Permissible limit in the absence of alternate source	
1.	pH (at 25°C)	-	7.03	6.5 to 8.5	No Relaxation	4500-H ⁺ B
2.	Colour	Hazen	1.0	5.0	15.0	2120 B
3.	Odour	-	Agreeable	Agreeable	Agreeable	2150 B
4.	Taste	-	Agreeable	Agreeable	Agreeable	2160 A
5.	Turbidity	N.T.U.	0.78	1	5	2130 B
6.	Conductivity	µS/cm	278.57	-	-	2510 B
7.	Total Dissolved Solid (TDS)	mg/L	201.0	500	2000	2540 C
8.	Total Hardness as CaCO ₃	mg/L	92.0	200	600	2340 C
9.	Chloride as Cl	mg/L	26.03	250	1000	4500Cl ⁻ B
10.	Total Alkalinity as CaCO ₃	mg/L	80.0	200	600	2320 B
11.	Sulfate as SO ₄	mg/L	14.12	200	400	4500 SO ₄ ²⁻ E
12.	Nitrate as NO ₃ ⁻	mg/L	2.6	45.0	No Relaxation	4500 NO ₃ ⁻
13.	Fluoride as F	mg/L	BDL	1	1.5	4500 FD
14.	Calcium as Ca	mg/L	24.46	75	200	3500- Ca B
15.	Magnesium as Mg	mg/L	6.92	30	100	3500- Mg B

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16.	Iron as Fe	mg/L	0.16	0.3	No Relaxation	3500-Fe B
17.	Residual Free Chlorine	mg/L	Nil	0.2	1.0	4500-Cl B
18.	Aluminium as Al	mg/L	BDL	0.03	0.2	3500-Al B
19.	Total Chromium as Cr	mg/L	BDL	0.05	No Relaxation	3500-Cr C
20.	Copper as Cu	mg/L	BDL	0.05	1.5	3500-Cu B
21.	Lead as Pb	mg/L	BDL	0.01	No Relaxation	3500-Pb B
22.	Cyanide as Cn	mg/L	BDL	0.05	No Relaxation	4500-CN C
23.	Nickel as Ni	mg/L	BDL	0.02	No Relaxation	3500-Ni
24.	Cadmium as Cd	mg/L	BDL	0.003	No Relaxation	3500-Cd
25.	Arsenic as As	mg/L	BDL	0.01	0.05	3500-As B
26.	Zinc as Zn	mg/L	BDL	5.0	15.0	3500-Zn B
27.	Mercury as Hg	mg/L	BDL	0.001	No Relaxation	3500-Hg
28.	Total Coliform / 100ml.	MPN/100ml	Absent	Absent	Absent	9221 B
29.	E. Coli / 100ml	MPN/100ml	Absent	Absent	Absent	9221 F

BDL stands for Below Detectable Limit

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