

CIN: U27100WB2009PTC135162

Six Monthly Compliance Report (Apr 21 to Sep 21)

Environmental Clearance

F. No. J-11011/378/2009-IA II (I) dated June 21, 2010

Contents

- Plant Details
- 2. Six Monthly Compliance Report (Apr 21 to Sep 21)
- Annexure 1 AAQ Monitoring Report
- Annexure 2 Noise Monitoring Report
- 5. Annexure 3 Stack Monitoring Report
- 6. Annexure 4 Fugitive Emission Monitoring Report
- 7. Annexure 5 Waste Water Monitoring Report
- 8. Annexure 6 Ground Water Monitoring Report



| | 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 |





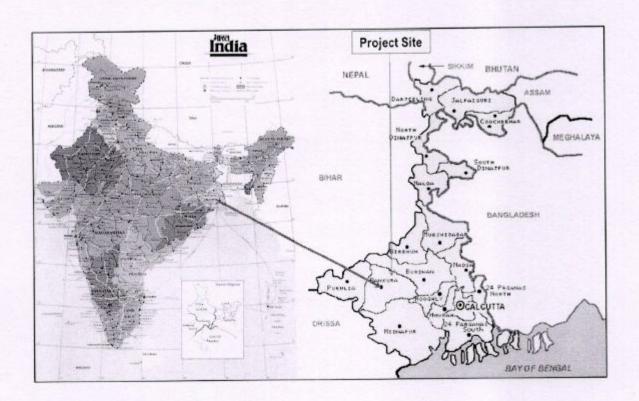




Fig - 1: General Location of Plant





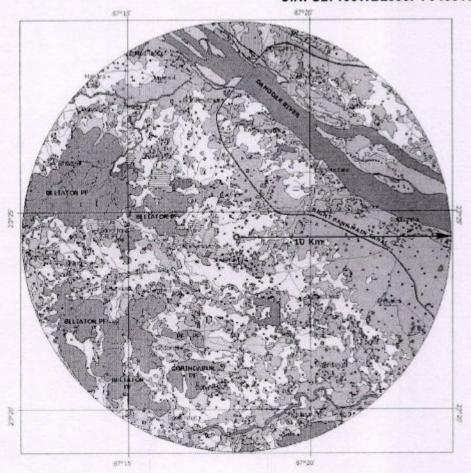


Fig - 2: Topographic Map

| Site Location | Mouza : Basudevpur (North) , P. S. : Barjora, District : Bankura, West Benga | |
|---------------------------|--|--|
| Latitude 23° 24′ 26.36″ N | | |
| Longitude | 87 [°] 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 | |





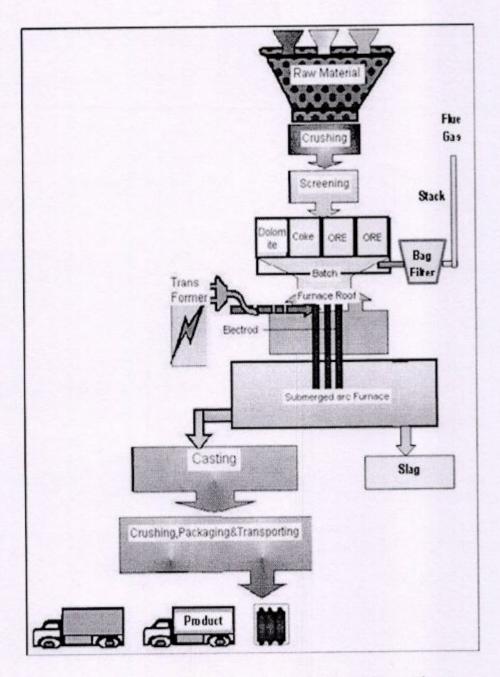


Fig - 3: Process Flow Diagram of Ferro Alloys Plant





CIN: U27100WB2009PTC135162

Plant is based on Zero Liquid Effluent Discharge

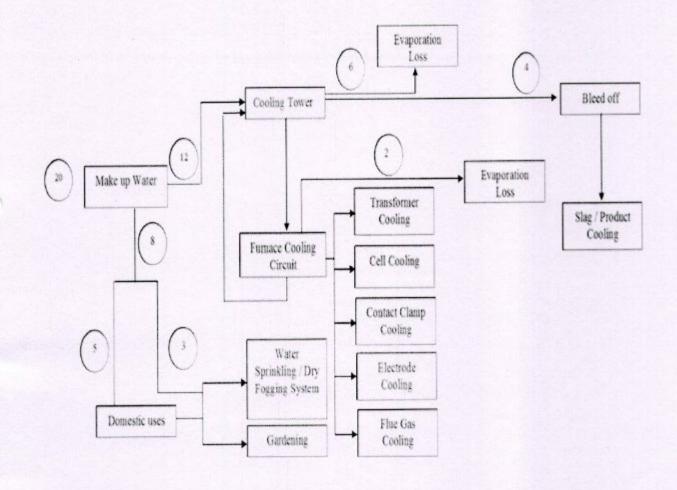


Fig - 4: Water Balance Diagram





CIN: U27100WB2009PTC135162

SIX MONTHLY COMPLIANCE REPORT

| SI. | 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/Nm³. 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. The result is attached as Annexure - 1. All the data are within permissible limits. Result of noise monitoring data is attached as Annexure - 2. |
| 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 company In the public domain. | environmental acts and rules including statutory conditions like monitoring data, compliance report will be complied with Result of Stack monitoring data is attached as Annexure - 3. |



| CIN: U27100WB2009PTC135162 | | | |
|----------------------------|--|--|--|
| SI. | Conditions | Remarks | |
| 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 as Annexure - 4. | |
| 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. | | |
| 8. | Prior permission for the drawl of 20 m³/day water from competent authority should be obtained. Total water requirement shall not exceed 20m³/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 not 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 reduct the quantity of make-up water consumption. Bleed off from cooling tower is used for slat cooling and domestic wastewater after septic tank is being utilized for green belt development water balance diagram is shown in Fig 4. | |



| SI. | Conditions | Remarks |
|-----|--|--|
| 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 zero effluent discharge effluent is discharged out plant boundary. Closed cooling system has been adopted to maximize recording to maximize recording purposes reduce the quantity of water consumption. B from cooling tower is use cooling and domestic water and water monitoring data is as Annexure - 5 and Annexur | |
| 11. | Slag produced In Ferro Manganese (Fe-Mn) production shall be used in manufacture of Silico Manganese (Si-Mn). | Noted. |
| 12. | 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., generated from Si-Mn properties is utilized in road / are development in and are plant premises. As per Notification S.O.: 2265-24th September 2008, volume low effect waster slags from pyrometry processes are non-house transfer in the solid waste i., generated from Si-Mn properties utilized in road / are development in and are plant premises. As per Notification S.O.: 2265-24th September 2008, volume low effect waster slags from pyrometry in the solid waste i., generated from Si-Mn properties utilized in road / are development in and are plant premises. As per Notification S.O.: 2265-24th September 2008, volume low effect waster slags from pyrometry in the solid waste i., generated from Si-Mn properties utilized in road / are development in and are plant premises. As per Notification S.O.: 2265-24th September 2008, volume low effect waster slags from pyrometry in the solid waster in th | |
| 13. | No Ferro chrome shall be manufactured without prior approval of the Ministry. | Noted, no Fe-Cr will be produced. |



| SI. | 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 being 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. | | |
| 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. | 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 plain 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. | social responsibility. Different activities under CSR head are going on in time bound manner as | |



| SI. | Conditions | Remarks |
|-----|---|---|
| 20. | The company shall provide housing for construction labour within the site with all necessary infrastructure end 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. | were provided to the labours which were mainly from the nearby area only. |

| SI. | Conditions | Remarks | |
|------|---|--|--|
| | B : GENERAL CONDITIONS | | |
| 1. | The project authority shall adhere to the stipulations made by West Bengal Pollution Control Board (WBPCB) and State Government. All the conditions in the Consent to Establishment Consent to Operate West Bengal Pollution Board are being compared. | | |
| 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 confirm 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. | | |
| 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 confirm to the standards prescribed under Environmental (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time). | provided to control work-zon noise levels and through adoptio of adequate protective measures i.e., use of personal protectiv equipment (ear plugs, ear muff etc.). Result of noise monitorin | |



| SI. | Conditions | 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. | |
|--|--|--|--|
| v. | Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act. | | |
| in the EIA/EMP shall be implemented and complied with. towards management mentioned in the | | | |
| 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 is being 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. | activities for effectiv | |



| | CIN | : U27100WB2009PTC135162 | |
|-------|--|---|--|
| SI. | Conditions | Remarks | |
| xi. | As proposed, Rs. 150.00 Lakhs shall be earmarked towards total capital cost and recurring 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. | The funds earmarked towards the capital cost as well as recurring cost for pollution control measures are being used to implement the conditions stipulated by the Statutory Authorities. | |
| kil. | 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. | 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. | 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. | |





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board

An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 Contact: 0343-2542377, 9732580459, 9433158173, email: greenvision.dgp@gmail.com, Website: www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No.

: GV/AR/20-21/0450

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

Address

Issued to

: Vill. : Basudebpur, P.O. +P.S. : Barjora,

Dist.: Bankura, Pin: 722204.

Sample Description

: Ambient Air

Location Sample Condition : Near Main Gate

: In GMF Filter Paper & Plastic Bottle

Laboratory Ref. No.

: AS-066-2021(1)

Report Date

: 29.03.2021

Date of Sampling

: 18.03.2021 to

19.03.2021

Analysis Started On

: 20.03.2021

Analysis Completed On Time of Sampling

: 20.03.2021 : 09:00 am to

09:00 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 (°C)

: 32.0 Average Relative Humidity (%) : 68.0

Barometric Pressure (mm of Hg): 754.0 Smell or Odour

: No Remarkable Smell

Weather Condition

: Clear Sky

B RESULT OF ANALYSIS

| SI. No. | Parameters | Unit | Concentration |
|---------|----------------------------------|-------|---------------|
| 01. | Concentration of PM10 | μg/m³ | 82.58 |
| 02. | Concentration of PM2.5 | μg/m³ | 42.82 |
| 03. | Concentration of SO ₂ | μg/m³ | 9.83 |
| 04. | Concentration of NO ₂ | μg/m³ | 40.62 |
| 05. | Concentration of CO | mg/m³ | 0.716 |
| | | | |

Limit: (µg/m²) National Ambient Air Quality Standard, CPCB Notification,18 th November, 2009

PM10 (24 Hrs.): 100, PM2.5 (24 Hrs.): 60, SO2 (24 Hrs.): 80, NO2 (24 Hrs.): 80, CO: 4 (mg/m3)

Checked by

VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

This certificate may not be reproduced in part or full without written permission of the management. 3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

Page 1/1

End of the report.....

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





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board

An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 Contact: 0343-2542377, 9732580459, 9433158173, email: greenvision.dgp@gmail.com, Website: www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No.

: GV/AR/20-21/0451

Issued to

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

Address

Location

: Vill. : Basudebpur, P.O. +P.S. : Barjora,

Dist.: Bankura, Pin: 722204.

Sample Description

: Ambient Air

: In GMF Filter Paper & Plastic Bottle

: Back Side of the Plant (Near boundary Wall)

Analysis Completed On Time of Sampling

Analysis Started On

Laboratory Ref. No.

Date of Sampling

Report Date

: 20.03.2021 : 09:25 am to 09:25 am

: AS-066-2021(2)

: 18.03.2021 to

19.03.2021

: 20.03.2021

: 29.03.2021

Sampling Method

Sample Condition

: 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 (°C)

: 32.0

Average Relative Humidity (%) : 68.0

Barometric Pressure (mm of Hg): 754.0

Smell or Odour

: No Remarkable Smell

Weather Condition

: Clear Sky

B RESULT OF ANALYSIS

| SI. No. | Parameters | Unit | Concentration |
|---------|----------------------------------|---------|---------------|
| 01. | Concentration of PM10 | μg/m³ | 79.41 |
| 02. | Concentration of PM2.5 | μg/m³ | 40.23 |
| 03. | Concentration of SO ₂ | μg/m³ | 9.57 |
| 04. | Concentration of NO ₂ | · μg/m³ | 40.12 |
| 05. | Concentration of CO | mg/m³ | 0.495 |

Limit : (µg/m³) 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/m³510

Checked by

Junior Scientist

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

This certificate may not be reproduced in part or full without written permission of the management.

3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

Page 1/1

End of the report.....

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





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 Contact: 0343-2542377, 9732580459, 9433158173, email:greenvision.dgp@gmail.com, Website:www.greenvisiondurgapur.com

TEST REPORT OF AMBIENT AIR ANALYSIS

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

Sample is drawn by M/s. Greenvision

Report No.

: GV/AR/20-21/0452

Laboratory Ref. No.

: AS-066-2021(3)

Issued to

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

Report Date

: 29.03.2021

Address

Date of Sampling

: 18.03.2021 to

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

19.03.2021

Sample Description

: Ambient Air

Analysis Started On

: 20.03.2021

Location

: Hatasuria Village

Analysis Completed On

: 20.03.2021

Sample Condition

: In GMF Filter Paper & Plastic Bottle

Time of Sampling

: 09:50 am to

09:50 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 (°C)

: 31.7

Average Relative Humidity (%) : 68.0

Barometric Pressure (mm of Hg): 754.0 Smell or Odour

: No Remarkable Smell

Weather Condition

: Clear Sky

B. RESULT OF ANALYSIS

| SI. No. | Parameters | Unit | Concentration |
|---------|----------------------------------|-------|---------------|
| 01. | Concentration of PM10 | μg/m³ | 62.42 |
| 02. | Concentration of PM2.5 | μg/m³ | 30.86 |
| 03. | Concentration of SO ₂ | μg/m³ | 9.14 |
| 04. | Concentration of NO ₂ | μg/m³ | 39.75 |
| 05. | Concentration of CO | mg/m³ | 0.326 |

Limit: (µg/m³) 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/m³)

Checked by

Authorised Signator

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

2. This certificate may not be reproduced in part or full without written permission of the management.

3. Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

Page 1/1

End of the report.....

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





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 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]

| Sample is drawn by M/s. | Greenvision | | |
|-------------------------|---|---|----------------------------------|
| Report No. | : GV/AR/20-21/0453 | Laboratory Ref. No. | : AS-066-2021(4 |
| Issued to | : M/s. Shree Ambey Ispat Pvt. Ltd. | Report Date | : 29.03.2021 |
| Address | : Vill. : Basudebpur, P.O. +P.S. : Barjora, Dist. : Bankura, Pin : 722204. | Date of Sampling | : 18.03.2021 |
| Sample Description | : Stack Air | Analysis Started On | : 19.03.2021 |
| Location | : Submerged Electric Arc Furnace | Analysis Completed On | : 19.03.2021 - |
| Sample Condition | : In GMF Thimble Time of Sampling | | : 11:00 am |
| Sampling Method | : CPCB, Emission Regulation (Part III) | | |
| Test Method | : CPCB, Emission Regulation (Part III), 18:1125 (Part 3), 2008, 18:11255 (Part 2), 1985, Reaffir | 5 (Part 1), 1985, Reaffirmed 2 med 2014, IS:13270:1992, Re | 2014, IS:11255 eaffirmed 2014 |

| A. (| GENERAL INFORMATION ABOUT STACK | |
|------|---------------------------------|--|
| 0.1 | Particulars of plant | |

| 01. | Particulars of plant | 3 | : Ferro Alloys I | Plant |
|-----|-----------------------------------|---------|------------------|-------------------------|
| 02. | Stack connected to | 5 1 1 | : S.E.A.F. | (4) |
| 03. | Material of construction | | : M.S. | - 4 |
| 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. | 아이에게 되는데 그 때문에 가지 때문에 가지 않아 되었다. | | : 1.8 | |
| 08. | Emission due to | | : Reduction of M | In Ore |
| 09. | Steam generation capacity: | (rated) | : | (running): |
| 10. | Load of source: | (rated) | : 9 MVA | (running): 8.5 MVA |
| D | EUEL CHADACTEDISTIC DE | POPT | | |

| 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 (°C) | : 76 |
| 02. Barometric pressure (mm of Hg) | : 755.0 |
| 03. Velocity of flue gas (m/sec) | : 9.64 |
| 04. Quantity of gas flow (Nm ³ /hr.) | : 47825.68 |
| 05. Concentration of Particulate Matter (mg/Nm³) | : 44.62 |
| 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 |

Checked by

Junior Scientist

Permanent Ladder and Platform

Authorisati Bighatory For, GREEN

Note: 1. This report refers to the values obtained at the time of testing and results related to the areas result. Was a first related to the areas results. An 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.

: Yes

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





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board

An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 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/20-21/0454

Laboratory Ref. No.

: AS-066-2021(5)

Issued to

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

Report Date

: 29.03.2021

Address

: Vill. : Basudebpur, P.O. +P.S. : Barjora,

Date of Sampling

: 19.03.2021

Sample Description

Dist.: Bankura, Pin: 722204.

Analysis Started On

: 20.11.2021

Location

: Fugitive Air

Analysis Completed On

: 20.11.2021

: Furnace Area

: 10:05 am to

Sample Condition

: In GMF Filter Paper & Plastic Bottle

Time of Sampling

06:05 pm

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.

A. METROLOGICAL INFORMATION

Average Temperature (°C)

: 33.5

Barometric Pressure (mm of Hg): 754.0

B. RESULT OF ANALYSIS

| SI. No. | Parameters | Unit | Concentration | |
|---------|----------------------------------|-------|---------------|--|
| 01. | Concentration of RSPM | μg/m³ | 745.52 | |
| 02. | Concentration of TSPM | μg/m³ | 1752.68 | |
| 03. | Concentration of SO ₂ | μg/m³ | 9.92 | |
| 04. | Concentration of NO ₂ | μg/m³ | 40.46 | |

Checked by

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

This certificate may not be reproduced in part or full without written permission of the management.

Retention period of tested sample (Filter Paper) is 6 months from the date of issue test report unless otherwise specified.

Page 1/1

End of the report.....

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



GREENVISION



: NLM-018-2021

: 29.03.2021

19.03.2021

: 1 Hr.

: 18.03.2021 to

(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 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/20-21/133

. GV/NL/20-21/133

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

Address

Issued to

: Vill. : Basudebpur, P.O. +P.S. : Barjora,

Dist.: Bankura, Pin: 722204.

Sample Description

Noise Level Limit

: Noise Level

: Day Time : 75 dB(A), Night Time : 65 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

| SI. No. | Location | Noise Level dB (A) | | | | | | |
|------------|---|---------------------|------|------|------|------|------|--|
| 1077 | | Day Time Night Time | | | | | ne | |
| | | Max. | Min. | Leq. | Max. | Min. | Leq. | |
| 01. | Near Main Gate | 73.5 | 66.2 | 71.3 | 63.8 | 56.4 | 60.9 | |
| 02. | Back Side of the Plant (Near Boundary Wall) | 70.0 | 63.2 | 67.8 | 58.4 | 51.2 | 55.5 | |
| 03. | Hat Asuria Village | 60.4 | 52.6 | 57.8 | 49.6 | 41.0 | 46.0 | |

Checked by

Junior Scientist

GREEN VISION

Adaptorised Strontono

Laboratory Ref. No.

Report Date

Total Time

Date of Sampling

For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

2. This certificate may not be reproduced in part or full without written permission of the management.

Page: 1/1

end of the report

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



GREENVISION



(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 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/20-21/154

Laboratory Ref. No.

: WS-039-2021

Issued to

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

Report Date

: 29.03.2021

Address

: Vill. : Basudebpur, P.O. +P.S. : Barjora,

Date of Sampling

: 18.03.2021

Sample Description

: Waste Water

Analysis Started on

: 19.03.2021

Location

: Final Outlet Near Boundary Wall

Dist.: Bankura, Pin: 722204.

Analysis Completed on

: 23.03.2021

Sample Condition

: In Glass Bottle & Plastic Bottle

Time of Sampling

: 01:20 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 | | 7.05 | |
| Total Suspended Solid(TSS) | APHA 23 rd EDITION, 2540 D | mg/l | 14.0 | |
| Chemical Oxygen Demand (COD) | APHA 23 rd EDITION, 5220 B | mg/I | 38.6 | |
| Biochemical Oxygen Demand (BOD) | IS:3025, P-44, 1993, Reaffirmed 2014 | mg/l | 6.5 | |
| Oil & Grease | APHA 23 rd EDITION, 5520 A | mg/l | < 5.0 | |

Checked by

Junior Scientist

GREEN VISION.

AuAberiandd Signadory

For GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

2. This certificate may not be reproduced in part or full without written permission of the management.

3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified:

1/1





(A leading environmental research laboratory) Recongnized by West Bengal Pollution Control Board An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 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 identification mark

Nil

Report No.

GV/GW/20-21/181

Issued To

Address

M/s. Shree Ambey Ispat Pvt. Ltd. Vill.: Basudebpur, P.O. +P.S.: Barjora,

Dist.: Bankura, Pin: 722204.

In Glass Bottle & Plastic Bottle

ample Description

Ground Water

Sampling Method Location

Sample Condition

APHA 23rd EDITION, 1060

Laboratory Ref. No. GS-029-2021

Report Date

29.03.2021

Date of Sampling Analysis Started on 18.03.2021 19.03.2021

Analysis Completed on Time of Sampling

26.03.2021 02:00 pm

Bore Well Inside Plant Premises

| | Parameters | | | As Per IS | :10500:2012 | |
|------------|---------------------------------------|--------|-------------|---------------------|--|---|
| SI. No. | | Unit | Unit Result | Acceptable Limit | Permissible limit in the absence of alternate source | Method Followed |
| 1. | pH (at 25°C) | - | 7.26 | 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. | 0.57 | 1 | . 5 | APHA 23 rd Edition 2130 B |
| 6. | Conductivity | μS/cm | 263.0 | | | APHA 23 rd Edition, 2510 B |
| 7. | Total Dissolved Solid (TDS) | mg/L | 190.0 | 500 | 2000 | APHA 23 rd Edition 2540 C |
| 8. | Total Hardness as CaCO ₃ | mg/L | 72.0 | 200 | 600 | APHA 23 rd Edition 2340 C |
| 9. | Chloride as Cl | mg/L | 17.06 | 250 | 1000 | APHA 23 rd Edition 4500Cl B |
| 10. | Total Alkalinity as CaCO ₃ | mg/L | 77.0 | 200 | 600 | APHA 23 rd Edition 2320 B |
| 11. | Sulfate as SO ₄ | mg/L | 18.62 | - 200 | 400 | APHA 23 rd Edition 4500 SO ₄ ² E |
| 12. | Nitrate as NO ₃ | mg/L | 4.0 | 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 |



GREENVISION



(A leading environmental research laboratory)
Recongnized by West Bengal Pollution Control Board
An ISO 9001: 2015 & OHSAS 18001: 2007 Certified Organisation

Urvashi Malhar, Phase II, MEAV-25, Bengal Ambuja Housing Complex, City Centre, Durgapur-713216 Contact: 0343-2542377, 9732580459, 9433158173, email: greenvision.dgp@gmail.com, Website: www.greenvisiondurgapur.com

| 14. | Calcium as Ca | mg/L | . 24.38 | 75 | 200 | APHA 23 rd Edition 3500- Ca B |
|-----|-------------------------|------|-------------|--------|---------------|---|
| 15. | Magnesium as Mg | mg/L | 8.05 | 30 | 100 | APHA 23 rd Edition 3500- Mg 3 |
| 16. | Iron as Fe | mg/L | 0.15 | 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-CI B |
| 18. | Aluminium as Al | mg/L | BDL | 0.03 | 0.2 | APHA 23 rd Edition 3500-AI 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

Checked by

Junior Scientist

SMEEN WISSISSON

Authorised Signeyory

For, GREEN VISION

Note: 1. This report refers to the values obtained at the time of testing and results related to the items tested.

2. This certificate may not be reproduced in part or full without written permission of the management.

3. Retention period of tested sample is 1 month from the date of issue test report unless otherwise specified.

^{*&}lt;1, indicates No Colony Developed in 1 ml Sample

^{*&}lt;10, indicates No Colony Developed in 0.1 ml Sample

^{*&}lt;100, indicates No Colony Developed in 0.01 ml Sample