

Report No.: ENV/SCFL/ML/24-25/AA-02

Date : 05/06/2024

Order No.: SCFL/HR/2023-24/13

Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

AMBIENT AIR QUALITY TEST RESULTS

| Sl. No. | LOCATION(S) ↓ | Date of Sampling | PM 2.5 (µg/m ³) | PM 10 (µg/m ³) | SO ₂ (µg/m ³) | NO ₂ (µg/m ³) |
|---------|------------------------------|------------------|-----------------------------|----------------------------|--------------------------------------|--------------------------------------|
| | LIMIT(S) → | --- | 60 | 100 | 80 | 80 |
| 01 | Near Administrative Building | 24.05.2024 | 27.1 | 58.2 | 11.9 | 13.4 |
| 02 | Near DM Plant | 24.05.2024 | 24.7 | 55.4 | 8.8 | 11.6 |

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Core Services: Environmental Monitoring & Data Generation, EIA & EMP, Environmental Audit & Allied Environmental Management jobs
Associate Services: Certification by Competent Person (CIF), NDT, Hydraulic Testing, Chartered Engineer Services etc.

Report No.: ENV/SCFL/ML/24-25/FE-02

Date : 05/06/2024

Order No.: SCFL/HR/2023-24/13

Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

PROCESS FUGITIVE EMISSION TEST RESULTS

| Sl. No. | Locations | Date of Sampling | SPM ($\mu\text{g}/\text{m}^3$) | Limits ($\mu\text{g}/\text{m}^3$) |
|---------|-------------------------------|------------------|----------------------------------|-------------------------------------|
| 01 | Near CPP Area | 25.05.2024 | 592 | 2000 |
| 02 | Near Ferro-Alloy Furnace Area | 25.05.2024 | 711 | 2000 |

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Report No.: ENV/SCFL/ML/24-25/N-02
Date : 05/06/2024

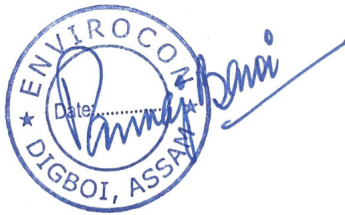
Order No.: SCFL/HR/2023-24/13
Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

AMBIENT NOISE LEVEL MEASUREMENT RESULTS

| Sl. No. | Location(s) | Date | Day Time | | | Night Time | | |
|---------|-------------------------------|------------|-------------|-------------|------------|-------------|-------------|------------|
| | | | Max. (dB-A) | Min. (dB-A) | Leq (dB-A) | Max. (dB-A) | Min. (dB-A) | Leq (dB-A) |
| 1 | Near Ferro-Alloy Furnace Area | 24.05.2024 | 76 | 65 | 71 | 67 | 55 | 58 |
| 2 | Near Weigh Bridge | 24.05.2024 | 69 | 52 | 62 | 54 | 41 | 48 |
| 3 | Near CPP Tower | 24.05.2024 | 68 | 53 | 61 | 62 | 47 | 56 |

Limit: Day Time- 75 dB(A), Night Time- 70 dB(A)



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Report No.: ENV/SCFL/ML/24-25/SE-02
Date : 05/06/2024

Order No.: SCFL/HR/2023-24/13
Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

STACK EMISSION TEST RESULTS

| Sample No. | SCFL/2024/SE-05/01 | | | | |
|--|--|---------------------|-----------|----------|------------------------|
| Date of Sampling | 24.05.2024 | | | | |
| Sample Collected From | Stack Attached To Ferro-Alloy Stack | | | | |
| PHYSICAL INSPECTION REPORT OF THE STACK | | | | | |
| Material of Construction | M. S. | | | | |
| Height of the Stack (Meter) | 40 (approx.) | | | | |
| Stack Diameter at Sampling Point (Meter) | 1.8 (approx.) | | | | |
| Fuel Used | Not Applicable | | | | |
| RESULTS OF STACK MONITORING | | | | | |
| Sl. No. | Parameter(s) | Unit(s) | Result(s) | Limit(s) | Analysis Protocol(s) |
| 1. | Flue Gas Temperature | °C | 142 | -- | IS 11255; Part 3 |
| 2. | Flue Gas Velocity | m/sec | 10.5 | -- | IS 11255; Part 3 |
| 3. | Flow Rate | Nm ³ /hr | 69080 | -- | IS 11255; Part 3 |
| 4. | Particulate Matter | mg/Nm ³ | 17 | 50 | IS 11255; Part 1 |
| 5. | Oxides of Sulphur (as SO ₂) | ppm | 6 | -- | Electrochemical Sensor |
| 6. | Oxides of Nitrogen (as NO _x) | ppm | 76 | -- | Electrochemical Sensor |



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Report No.: ENV/SCFL/ML/24-25/WW-02

Date : 05/06/2024

Order No.: SCFL/HR/2023-24/13

Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101**STP WATER ANALYSIS RESULTS**

Sample Ref. No. : SCFL/2024/STP-2605/01

Sample Source : STP Outlet (SCFL)

Sample Type : STP Treated Water

Collected On : 26-05-2024

Received On : 27-05-2024

Collected By : ENVIROCON Representative

| Sl. No. | Parameters | Results | Limit [G.S.R. 1265 (E), 2017] |
|---------|--|---------|----------------------------------|
| 1 | pH | 7.18 | 6.5 – 9.0 |
| 2 | Biochemical Oxygen Demand (as BOD), mg/l | 16 | 30 |
| 3 | Total Suspended Solids (as TSS), mg/l | 14 | <100 |
| 4 | Fecal Coliform (as FC), MPN/100 ml | 580 | <1000 |

Analysis Protocol: IS 3025

MPN: Most Probable Number



Checked By: Mr. Pankaj Baroi, ENVIROCON

- NOTE:**
1. Results reported are valid at the time of and under the prevailing conditions of measurement.
 2. Results refer only to the particular parameters tested.
 3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.

Report No.: ENV/SCFL/ML/24-25/SW-02

Date : 05/06/2024

Order No.: SCFL/HR/2023-24/13

Date : 30/01/2024

Report Issued To : **SHYAM CENTURY FERROUS LIMITED**
EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2024/SW-2605/01

Sample Source : Ummatur River

Sample Type : Surface Water

Collected On : 26-05-2024

Received On : 27-05-2024

Collected By : ENVIROCON Representative

| Sl. No. | Parameters | Results | Acceptable Limit* | Permissible Limit* in the Absence of Alternate Source |
|---------|---|-----------|-------------------|---|
| 1. | Colour, Hazen Units, Max. | 10 | 5 | 15 |
| 2. | Odour | Agreeable | Agreeable | Agreeable |
| 3. | Temperature | 26.9 | -- | -- |
| 4. | pH Value | 6.77 | 6.5 - 8.5 | No Relaxation |
| 5. | Suspended Solids | 36 | -- | -- |
| 6. | Total Dissolved Solids, mg/l, Max. | 78 | 500 | 2000 |
| 7. | Conductivity, μ S/cm | 121 | -- | -- |
| 8. | Dissolved Oxygen, mg/l, Min. | 5.6 | -- | -- |
| 9. | Biochemical Oxygen Demand, mg/l, Max. | <1.0 | -- | -- |
| 10. | Chemical Oxygen Demand, mg/l, Max. | 25 | -- | -- |
| 11. | Oil and Grease, mg/l, Max. | <4.0 | -- | -- |
| 12. | Residual Chlorine, mg/l, Min. | <0.01 | 0.2 | 1 |
| 13. | Total Hardness (as CaCO ₃), mg/l, Max. | 8.1 | 200 | 600 |
| 14. | Calcium (as Ca), mg/l, Max. | 4 | 75 | 200 |
| 15. | Magnesium (as Mg), mg/l, Max. | <1.0 | 30 | 100 |
| 16. | Iron (as Fe), mg/l, Max. | <0.001 | 0.3 | No Relaxation |
| 17. | Total Chromium, (as Cr), mg/l, Max | <0.001 | 0.05 | No Relaxation |
| 18. | Ammonical Nitrogen (as N), mg/l, Max. | <0.1 | -- | -- |
| 19. | Total Kjeldahl Nitrogen (as NH ₃), mg/l, Max. | <0.1 | -- | -- |
| 20. | Free Ammonia (as NH ₃), mg/l, Max. | <0.01 | -- | -- |

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

1. Results reported are valid at the time of and under the prevailing conditions of measurement.
2. Results refer only to the particular parameters tested.
3. This test report shall not be reproduced except in full, without the written permission of ENVIROCON, I.O.C.L (AOD) New Market, Digboi – 786171, Assam.