

Report No.: ENV/SCFL/ML/24-25/AA-04

Date : 12/08/2024

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 <sup>3</sup> )	PM 10 (µg/m <sup>3</sup> )	SO <sub>2</sub> (µg/m <sup>3</sup> )	NO <sub>2</sub> (µg/m <sup>3</sup> )
	LIMIT(S) →	---	60	100	80	80
01	Near Administrative Building	29.07.2024	19.6	52.5	9.1	14.2
02	Near DM Plant	29.07.2024	24.8	56.3	11.6	17.5
03	Near Conveyor Belt	30.07.2024	27.3	61.4	10.2	15.2
04	Near MRSS	30.07.2024	24.9	57.5	9.6	13.8

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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**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-04

Date : 12/08/2024

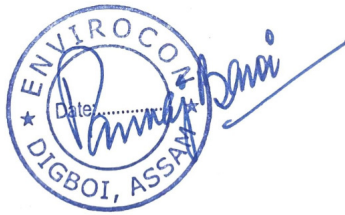
Order No.: SCFL/HR/2023-24/13

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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	31.07.2024	529	2000
02	Near Ferro-Alloy Furnace Area	31.07.2024	726	2000

Analysis Protocol: IS 5182

Checked By: Mr. Pankaj Baroi, **ENVIROCON**

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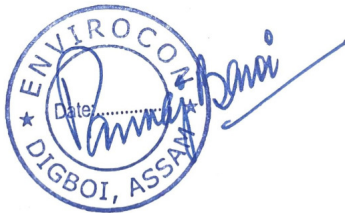
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### AMBIENT NOISE LEVEL MEASUREMENT RESULTS

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	29.07.2024	75	65	72	65	53	55
2	Near Weigh Bridge	29.07.2024	66	51	61	54	43	48
3	Near CPP Tower	29.07.2024	63	52	59	59	42	51

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



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EPIP, Rajabagan, Byrnihat, Meghalaya- 793101

### STACK EMISSION TEST RESULTS

Sample No.	SCFL/2024/SE-07/01				
Date of Sampling	30.07.2024				
Sample Collected From	Stack Attached To Ferro-Alloy Stack				
<b>PHYSICAL INSPECTION REPORT OF THE STACK</b>					
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				
<b>RESULTS OF STACK MONITORING</b>					
Sl. No.	Parameter(s)	Unit(s)	Result(s)	Limit(s)	Analysis Protocol(s)
1.	Flue Gas Temperature	°C	152	--	IS 11255; Part 3
2.	Flue Gas Velocity	m/sec	11.2	--	IS 11255; Part 3
3.	Flow Rate	Nm <sup>3</sup> /hr	71951	--	IS 11255; Part 3
4.	Particulate Matter	mg/Nm <sup>3</sup>	22	50	IS 11255; Part 1
5.	Oxides of Sulphur (as SO <sub>2</sub> )	ppm	2	--	Electrochemical Sensor
6.	Oxides of Nitrogen (as NO <sub>x</sub> )	ppm	83	--	Electrochemical Sensor



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Report No.: ENV/SCFL/ML/24-25/WW-04

Date : 12/08/2024

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-3107/01

Sample Source : STP Outlet (SCFL)

Sample Type : STP Treated Water

Collected On : 31-07-2024

Received On : 01-08-2024

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	pH	7.28	6.5 – 9.0
2	Biochemical Oxygen Demand (as BOD), mg/l	19	30
3	Total Suspended Solids (as TSS), mg/l	23	<100
4	Fecal Coliform (as FC), MPN/100 ml	684	<1000

Analysis Protocol: IS 3025

MPN: Most Probable Number



Checked By: Mr. Pankaj Baroi, ENVIROCON

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### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2024/SW-3107/01

Sample Source : Ummatur River

Sample Type : Surface Water

Collected On : 31-07-2024

Received On : 01-08-2024

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	26.4	--	--
4.	pH Value	6.67	6.5 - 8.5	No Relaxation
5.	Suspended Solids	49	--	--
6.	Total Dissolved Solids, mg/l, Max.	96	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	181	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.5	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	<1.0	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	18	--	--
11.	Oil and Grease, mg/l, Max.	<4.0	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as $\text{CaCO}_3$ ), mg/l, Max.	6.9	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 $\text{NH}_3$ ), mg/l, Max.	<0.1	--	--
20.	Free Ammonia (as $\text{NH}_3$ ), mg/l, Max.	<0.01	--	--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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