

Report No.: ENV/SCFL/ML/22-23/AA-10  
Date : 03/02/2023

Order No.: SCFL/HR/2022-2023/5  
Date : 30/01/2022

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	23.01.2023	22.6	55.2	12.7	18.1
02	Near DM Plant	23.01.2023	18.9	51.7	10.5	15.9

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

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**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	24.01.2023	453	2000
02	Near Ferro-Alloy Furnace Area	24.01.2023	537	2000

Analysis Protocol: IS 5182



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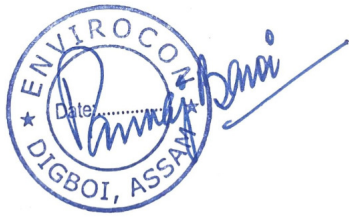
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**AMBIENT NOISE LEVEL MEASUREMENT RESULTS**

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	23.01.2023	72	68	71	67	61	64
2	Near Weigh Bridge	23.01.2023	68	61	63	58	49	53
3	Near CPP Tower	23.01.2023	65	56	60	57	46	51

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



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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.

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**STACK EMISSION TEST RESULTS**

Sample No.	SCFL/2023/SE-01/01				
Date of Sampling	23.01.2023				
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	142	--	IS 11255; Part 3
2.	Flue Gas Velocity	m/sec	7.1	--	IS 11255; Part 3
3.	Flow Rate	Nm <sup>3</sup> /hr	50234	--	IS 11255; Part 3
4.	Particulate Matter	mg/Nm <sup>3</sup>	32	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	67	--	Electrochemical Sensor



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### STP WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2023/STP-2401/01  
Collected On : 24-01-2023

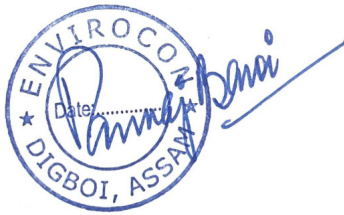
Sample Source : STP Outlet (SCFL)  
Received On : 25-01-2023

Sample Type : STP Treated Water  
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	pH	7.36	6.5 – 9.0
2	Biochemical Oxygen Demand (as BOD), mg/l	18	30
3	Total Suspended Solids (as TSS), mg/l	37	<100
4	Fecal Coliform (as FC), MPN/100 ml	808	<1000

Analysis Protocol: IS 3025

MPN: Most Probable Number



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### SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2023/SW-2401/01  
Collected On : 24-01-2023

Sample Source : Ummatur River  
Received On : 25-01-2023

Sample Type : Surface Water  
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	8	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	19.6	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	41	--	--
6.	Total Dissolved Solids, mg/l, Max.	72	500	2000
7.	Conductivity, $\mu$ S/cm	125	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.4	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	Nil	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	23	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO <sub>3</sub> ), mg/l, Max.	12	200	600
14.	Calcium (as Ca), mg/l, Max.	5	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1	30	100
16.	Iron (as Fe), mg/l, Max.	0.03	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.	0.5	--	--
19.	Total Kjeldahl Nitrogen (as NH <sub>3</sub> ), mg/l, Max.	1.2	--	--
20.	Free Ammonia (as NH <sub>3</sub> ), mg/l, Max.	<0.01	--	--

\*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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