

Report No.: ENV/SCFL/ML/22-23/AA-09
Date : 09/01/2023

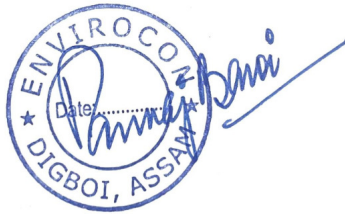
Order No.: SCFL/HR/2022-2023/5
Date : 30/01/2022

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 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	28.12.2022	24.9	57.1	10.5	16.2
02	Near DM Plant	28.12.2022	21.6	52.8	8.6	11.5

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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Date : 09/01/2023

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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	28.12.2022	436	2000
02	Near Ferro-Alloy Furnace Area	28.12.2022	492	2000

Analysis Protocol: IS 5182



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

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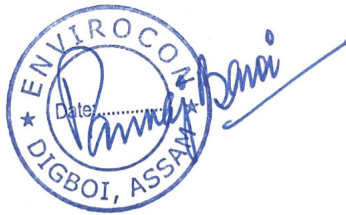
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AMBIENT NOISE LEVEL MEASUREMENT RESULTS

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	28.12.2022	69	65	67	66	58	62
2	Near Weigh Bridge	28.12.2022	65	59	61	56	48	51
3	Near CPP Tower	28.12.2022	63	55	59	57	47	52

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



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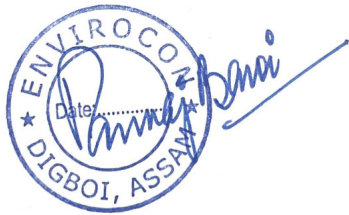
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STACK EMISSION TEST RESULTS

Sample No.	SCFL/2022/SE-12/01				
Date of Sampling	28.12.2022				
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	148	--	IS 11255; Part 3
2.	Flue Gas Velocity	m/sec	7.8	--	IS 11255; Part 3
3.	Flow Rate	Nm ³ /hr	50585	--	IS 11255; Part 3
4.	Particulate Matter	mg/Nm ³	28	50	IS 11255; Part 1
5.	Oxides of Sulphur (as SO ₂)	ppm	5	--	Electrochemical Sensor
6.	Oxides of Nitrogen (as NO _x)	ppm	71	--	Electrochemical Sensor



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Report No.: ENV/SCFL/ML/22-23/WW-09
Date : 09/01/2023

Order No.: SCFL/HR/2022-23/5
Date : 30/01/2022

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

STP WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2022/STP-2912/01
Collected On : 29-12-2022

Sample Source : STP Outlet (SCFL)
Received On : 30-12-2022

Sample Type : STP Treated Water
Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Limit [G.S.R. 1265 (E), 2017]
1	pH	7.29	6.5 – 9.0
2	Biochemical Oxygen Demand (as BOD), mg/l	21	30
3	Total Suspended Solids (as TSS), mg/l	32	<100
4	Fecal Coliform (as FC), MPN/100 ml	760	<1000

Analysis Protocol: IS 3025

MPN: Most Probable Number



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Date : 30/01/2022

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SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2023/SW-2912/01
Collected On : 29-12-2022

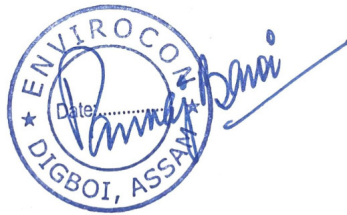
Sample Source : Ummatur River
Received On : 30-12-2022

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.	4	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	21.6	--	--
4.	pH Value	6.74	6.5 - 8.5	No Relaxation
5.	Suspended Solids	32	--	--
6.	Total Dissolved Solids, mg/l, Max.	68	500	2000
7.	Conductivity, $\mu\text{S}/\text{cm}$	116	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.5	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	Nil	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	18	--	--
11.	Oil and Grease, mg/l, Max.	Nil	--	--
12.	Residual Chlorine, mg/l, Min.	<0.01	0.2	1
13.	Total Hardness (as CaCO_3), mg/l, Max.	7.2	200	600
14.	Calcium (as Ca), mg/l, Max.	<1	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1	30	100
16.	Iron (as Fe), mg/l, Max.	0.015	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.	0.8	--	--
20.	Free Ammonia (as NH_3), mg/l, Max.	<0.01	--	--

*Limits as per IS 10500:2012

Analysis Protocol: IS 3025



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