

Report No.: ENV/SCFL/ML/22-23/AA-12

Date : 18/03/2023

Order No.: SCFL/HR/2023-2024/01

Date : 28/01/2023

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	07.03.2023	21.7	50.5	12.7	15.2
02	Near DM Plant	07.03.2023	23.6	53.4	14.9	17.2

Analysis Protocol: IS 5182



Checked By: Mr. Pankaj Baroi, ENVIROCON

NOTE:

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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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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	08.03.2023	389	2000
02	Near Ferro-Alloy Furnace Area	08.03.2023	536	2000

Analysis Protocol: IS 5182



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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	07.03.2023	73	67	71	66	58	63
2	Near Weigh Bridge	07.03.2023	68	61	65	61	48	52
3	Near CPP Tower	07.03.2023	62	54	59	55	46	49

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



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STACK EMISSION TEST RESULTS

Sample No.	SCFL/2023/SE-03/01				
Date of Sampling	07.03.2023				
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	147	--	IS 11255; Part 3
2.	Flue Gas Velocity	m/sec	8.2	--	IS 11255; Part 3
3.	Flow Rate	Nm ³ /hr	53306	--	IS 11255; Part 3
4.	Particulate Matter	mg/Nm ³	36	50	IS 11255; Part 1
5.	Oxides of Sulphur (as SO ₂)	ppm	4	--	Electrochemical Sensor
6.	Oxides of Nitrogen (as NO _x)	ppm	86	--	Electrochemical Sensor



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STP WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2023/STP-0803/01
Collected On : 08-03-2023

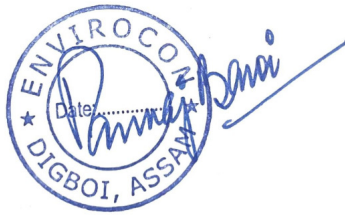
Sample Source : STP Outlet (SCFL)
Received On : 10-03-2023

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	16	30
3	Total Suspended Solids (as TSS), mg/l	27	<100
4	Fecal Coliform (as FC), MPN/100 ml	719	<1000

Analysis Protocol: IS 3025

MPN: Most Probable Number



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SURFACE WATER ANALYSIS RESULTS

Sample Ref. No. : SCFL/2023/SW-0803/01

Sample Source : Ummatur River

Sample Type : Surface Water

Collected On : 08-03-2023

Received On : 10-03-2023

Collected By : ENVIROCON Representative

Sl. No.	Parameters	Results	Acceptable Limit*	Permissible Limit* in the Absence of Alternate Source
1.	Colour, Hazen Units, Max.	6	5	15
2.	Odour	Agreeable	Agreeable	Agreeable
3.	Temperature	25.4	--	--
4.	pH Value	6.68	6.5 - 8.5	No Relaxation
5.	Suspended Solids	42	--	--
6.	Total Dissolved Solids, mg/l, Max.	81	500	2000
7.	Conductivity, μ S/cm	136	--	--
8.	Dissolved Oxygen, mg/l, Min.	5.5	--	--
9.	Biochemical Oxygen Demand, mg/l, Max.	Nil	--	--
10.	Chemical Oxygen Demand, mg/l, Max.	25	--	--
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.	17	200	600
14.	Calcium (as Ca), mg/l, Max.	11	75	200
15.	Magnesium (as Mg), mg/l, Max.	<1	30	100
16.	Iron (as Fe), mg/l, Max.	0.041	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.	1.4	--	--
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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