



Sabz Care

Environmental Consultancy Pvt. Ltd.



lets start thinking about nature for tomorrow

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## TEST REPORT

Unique Lab Report No. (ULR No.)	TC994822000001244F		
Name of Industry	M/s Shivam Iron Steel Co. Ltd. (Ferro Alloys Division)	Discipline	Chemical
Address	At - Jambad, P.O - Udnabad District - Giridih, State-Jharkhand	Type of Industry	Ferro Alloys Plant
Date of Sampling	27.12.2022	Group	Atmospheric Pollution
Location	Stack	Sample Collected by	Vivek Kr Malakar & Team
Sample Details	Stack Emission	Sample condition	Sealed
Report No.	SCECPL/TR/22/405/ST-56	Sample Drawn By	Sabz Care Lab
Plant Status	Operational	Period of Analysis	28.12.2022
		Report Release Date	31.12.2022

## GENERAL INFORMATION ABOUT STACK

- Stack attached to : SAF No - 1,2,&3 (All in operation - 6 MVA Each)
- Shape of Stack : Circular
- Material of Construction : M.S
- Height of Stack from G.L (mtr) : 30.0 Meter
- Stack ID at sampling point (mtr) : 1.6 Meter
- Height of sampling port from G.L. (mtr) : 20.0 Meter
- Working Load : 5.4 MVA Each Furnace
- Emission due to : Smelting of Mn Ore
- Type of Fuel Used: Electricity
  - Fuel Consumption:-----
  - Platform : Permanent
- Stack Gas Temperature (°C) : 65 °C
- Barometric Pressure (mm of Hg) : 750.00
- Velocity of Gas Flow (m/s) : 5.79 m/s
- Flue Gas Quantity (Nm<sup>3</sup>/Hr) : 36509 Nm<sup>3</sup>/Hr


## TEST RESULTS

S. No.	PARAMETERS	UNIT	TEST METHOD	RESULTS
1.	Particulate Matter	mg/Nm <sup>3</sup>	IS: 11255 (Part 1)	43.58
2.	Sulphur Dioxide as SO <sub>2</sub>	mg/Nm <sup>3</sup>	IS: 11255 (Part 2)	23.03
3.	Oxide of Nitrogen as NOx	mg/Nm <sup>3</sup>	IS 11255 : Part 7	29.65

## \*Remark:

- Test values are reported based on the samples received.
- Samples will be destroyed after 15 days from date of issues of the Test Report subject to nature of preservation. Samples will be preserved as per the standard method.

\*\*\* END OF REPORT \*\*\*

Authorized Signatory  
  
 (Mansoor Alam)

ISO 9001 : 2015 CERTIFIED COMPANY : OHSAS : 45001 : 2018 CERTIFIED LAB

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