



# Eco Care



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Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001 : 2015 Certified, OHSAS 18001:2007 Certified

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Format No. : EC/TRT/42/FM/01

## TEST REPORT

Report Release Date : 11.10.2018	Sample Ref. No.(ARF) : EC/ARF/29/181020
Test Report No : EC/TR/42/10048	Source of Sample : Ferro Alloys Plant
Type of Sample : Dust & Gaseous Emission	Sampling Date : 09.10.2018
Sample Collected by : Mr. Rajeev Kumar & Team	Period of Analysis : 10.10.2018
Sample Details : Stack Emission	Sampling Location : Bag Filter Stack
Name & Address : <b>Jamshedpur Minerals &amp; Chemicals</b> B-29(P), VI <sup>th</sup> Phase A.I.A, Gamharia Saraikela Kharsawan Jharkhand	Sample Condition : Preserved & Sealed
	Sample Stamped as : TH - 140
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Remarks : ----
	Deviation if any : None

### GENERAL INFORMATION

1 Particular of the Plant	: Ferro Alloys Plant
2 Emission Due to	: Process Activity
3 Stack Connected to	: Reactor Vessels
4 Material of Construction	: M.S.
5 Stack Height from G.L.	: 30.0 m
6 Height of Sampling Port from G.L.	: 15.0 m
7 Height of Sampling Port from L.D.Z.	: 3.7 m
8 Dimension of Stack at Sampling Port	: 0.70 m
9 Shape of the Stack	: Circular Ø
10 Working Load	: 1 MT/Cycle (1 Cycle = 48 hrs)

### FUEL CHARACTERISTIC REPORT

1 Source of Energy	: Aluminium
2 Energy Consumption	: 200 Kg/Cycle (1 Cycle = 48 hrs)
3 Calorific Value (K-Cal/Kg)	: ----

### RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1 Flue Gas Temperature	47 °C	IS 11255 : Part 3
2 Barometric Pressure	750 mm Hg	IS 11255 : Part 3
3 Velocity of Flue Gas	8.67 m/sec	IS 11255 : Part 3
4 Flue Gas Quantity	11049 NM <sup>3</sup> /hr	IS 11255 : Part 3
5 Concentration of Particulate Matter	36.68 mg/NM <sup>3</sup>	IS 11255 : Part 1
6 Concentration of Carbon Dioxide %	2.6	IS 13270
7 Concentration of SO <sub>2</sub>	20.85 mg/NM <sup>3</sup>	IS 11255 : Part 2
8 Concentration of NO <sub>x</sub>	41.95 mg/NM <sup>3</sup>	IS 11255 : Part 7

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory

*(Signature)*  
Authorised Signatory

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