

Laboratory Ferro Alloys Testing Laboratory of Sarda Energy & Minerals Ltd.,
Ferro Alloys Division, Industrial Growth Center, Siltara, Raipur,
Chhattisgarh

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6223

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Validity 19.05.2018 to 18.05.2020

Last Amended on 06.06.2018

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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CHEMICAL TESTING

I.	METAL & ALLOYS			
1.	High Carbon Ferro manganese	Manganese	IS 1559 : 1961 (RA 2018), Clause 20, Volhard Method	62.0 % to 80.0 %
		Silicon	IS 1559 : 1961 (RA 2018), Clause 18	0.20 % to 10.0 %
		Phosphorus	OCP/I-QA FAD-1/CQA Dated 15-03-2014	0.100 % to 0.500 %
2.	High Carbon Silico manganese	Manganese	IS 1559 : 1961 (RA 2018), Clause 26, Volhard Method	52.0 % to 70.0 %
		Silicon	IS 1559 : 1961 (RA 2018), Clause 24	10.0 % to 22.0 %
		Phosphorus	OCP/I-QA FAD-1/CQA Dated 15-03-2014	0.100 % to 0.500 %
II.	ORES AND MINERALS			
1.	Manganese Ore	Manganese	IS 1473 : 2004 (RA 2016), Clause 9	20.0 % to 55.0 %
		Iron	IS 1473 : 2004 (RA 2016), Clause 12	2.00 % to 20.0 %
		Silica	IS 1473 : 2004 (RA 2016), Clause 6	2.00 % to 50.0 %
		Phosphorus	IS 1473 : 2004	0.070 % to 0.500 %