

<b>Laboratory</b>	<b>SGS India Private Limited, Kamarjoda, P.O.-Banspani, Distt.- Keonjhar, Odisha</b>		
<b>Accreditation Standard</b>	<b>ISO/IEC 17025: 2005</b>		
<b>Discipline</b>	<b>Chemical Testing</b>	<b>Issue Date</b>	<b>03.06.2014</b>
<b>Certificate Number</b>	<b>T-2210</b>	<b>Valid Until</b>	<b>11.04.2016</b>
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<b>S.No.</b>	<b>Product / Material of Test</b>	<b>Specific Test Performed</b>	<b>Test Method Specification against which tests are performed</b>	<b>Range of Testing / Limits of Detection</b>
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#### **I. ORES & MINERALS**

<b>1. Iron Ore</b>	Iron (Fe)		IS 1493 (Part 1) -1981, (RA 2011) & SGS/JDA/IHM-01 Issue date 14.12.2013	1.00% to 70.00 %
	Silica (SiO <sub>2</sub> )		IS 1493 (Part - 1) 1981, (RA 2011)	0.5% to 30.0 %
	Alumina (Al <sub>2</sub> O <sub>3</sub> )		IS 1493 (Part 1) -1981, (RA 2011) & SGS/JDA/IHM-03 Issue date 11.09.2012	0.5% to 25.0%
	Phosphorus (P)		IS 1493 (Part - 1) 1981, (RA 2011)	0.01% to 0.50%
	Sulphur (S)		IS 1493-1959, (RA 2011) & IS 1493 (Part 1) -1981, (RA 2011)	0.005% to 0.20%
	Titanium dioxide (TiO <sub>2</sub> )		IS 1493-1959, (RA 2011)	0.05% to 0.30%
	Manganese (Mn)		IS 1493-1959, (RA 2011)	0.05% to 10.0%
	Calcium Oxide (CaO)		IS 1493-1959, (RA 2011) & IS 5949-1992, (RA 2003)	0.05% to 5.0%
	Magnesium Oxide (MgO)		IS 1493-1959, (RA 2011) & IS 5949-1992, (RA 2003)	0.05% to 3.0%
	Ferrous Oxide (FeO)		IS 1493-1959, (RA 2011)	0.1% to 25.0%

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
2.	<b>Manganese Ore</b>	Manganese (Mn)	IS 1473-2004, (RA 2011)	5.0% to 60.0%
		Iron (Fe)	IS 1473-2004, (RA 2011)	1.0% to 40.0%
		Manganese Dioxide (MnO <sub>2</sub> )	IS 1473-2004, (RA 2011)	0.5% to 90.0%
		Silica (SiO <sub>2</sub> )	IS 1473-2004, (RA 2011)	0.5% to 15.0%
		Alumina (Al <sub>2</sub> O <sub>3</sub> )	IS 1473-2004, (RA 2011)	0.5% to 15.0%
		Phosphorus (P)	IS 1473-2004, (RA 2011)	0.01% to 0.500%
		Sulphur (S )	IS 1473-2004, (RA2011)	0.005% to 0.200%

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