

Laboratory Chemical Laboratory, TATA Steel Limited, Mines Division Noamundi,
P.O. Noamundi, Dist. Singhbhum (W), Jharkhand

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7974 (in lieu of T-3198)

Page 1 of 1

Validity 14.11.2018 to 13.11.2020

Last Amended on --

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.	ORES & MINERALS			
1.	Iron ore	Total Iron (Fe)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	10.00 % to 69.5 %
			IS 1493 (Part 1): 1981 (RA 2001)	
		Silica (SiO ₂)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	0.25 % to 45.0 %
		Alumina (Al ₂ O ₃)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	0.20 % to 30.0 %
		Phosphorous (P)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	0.01 % to 0.60 %
		Manganese (Mn)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	0.015 % to 0.850 %
		Titanium Oxide (TiO ₂)	TSL/LAB/SOP/O1 (ICP-OES), Issue no 2, Issue date 1 st February 2017	0.05 % to 0.50 %
		Loss on Ignition (LOI)	TSL/LAB/SOP/03, Issue no 2, Issue date 1 st February 2017	0.50 % to 20.00 %

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