Laboratory	Quality Assurance Laboratory, Tata Metaliks Limited - Kharagpur, P.O Somraipur, Paschim Midnapur, Kharagpur, West Bengal		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-7321 (in lieu of T-1111)	Page 1 of 2	
Validity	29.05.2018 to 28.05.2020	Last Amended on	

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

CHEMICAL TESTING

I .	SOLID FUELS			
1.	Coal & Coke	Ash	IS 1350(Part-I) 1984	5% to 25%
		Volatile Matter	RA 2013	0.2% to 30%
11.	METALS & ALLOYS			
1.	Cast Iron	С	ASTM E1999-11	3.00% to 4.3%
		Si	(Spark AES)	0.5% to 3.5%
		Mn		0.01% to 1.5%
		S		0.015% to 0.100%
		Р		0.030% to 1.2%
		Ti		0.05% to 0.15%
III.	ORES & MINERALS			
1.	Iron Ore	Fe	TML/LAB/SOP/02	50% to 70%
		SiO ₂	Issue No.01	0.5% to15%
		Al ₂ O ₃	Issue Date 10.08.2015	0.5% to 5%
		Р	(XRF Press Pellet method)	0.01% to 0.2%
2.	Sinter	Fe	TML/LAB/SOP/02	50% to 70%
		CaO	Issue No.01	5% to 15%
		MgO	Issue Date 10.08.2015	1% to 5%
		SiO ₂	(XRF Press Pellet method)	2% to 10%
		Al ₂ O ₃		1% to 5%
		P		0.02% to 0.2%
3.	Lime stone	Fe ₂ O ₃	TML/LAB/SOP/02	0.05% to 2%
		CaO	Issue No.01	45% to 60%
		SiO ₂	Issue Date 10.08.2015	0.1% to 10%
		MgO	(XRF Press Pellet method)	0.1% to 5%
		Al ₂ O ₃		0.1% to 5%

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SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
4.	Dolomite	Fe ₂ O ₃	TML/LAB/SOP/02	0.1% to 2%
		CaO	Issue No.01	20% to 35%
		SiO ₂	Issue Date 10.08.2015	0.1% to 5%
		MgO	(XRF Press Pellet method)	15% to 30%
		Al ₂ O ₃		0.1% to 5%
5.	Slag	FeO	TML/LAB/SOP/02	0.1% to 2%
		CaO	Issue Date 10.08.2015	20% to 40%
		SiO ₂		20% to 40%
		MgO		2% to 15%
		Al ₂ O ₃		10% to 25%