Quality Services & Solutions (Goa), Hospet Branch, H. No. 878, Ayudhay, 2nd & 3rd Floor, 11th Ward, Kalyannagar, Chitwadgi, Laboratory

Hosapete, Karnataka

ISO/IEC 17025: 2005 **Accreditation Standard**

Certificate Number TC-7555 Page 1 of 2

Validity 14.12.2018 to 13.12.2020 Last Amended on --

"In view of the transition for ISO/IEC 17025:2017, the validity of this accreditation certificate will cease on 30.11.2020"

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

CHEMICAL TESTING

I.	ORES & MINERALS			
1.	Iron Ore	Iron as Fe	IS 1493 (Part-1):1981 (Stannous Chloride Method)	20 % to 70%
		Ferrous Oxide as FeO	IBM Manual – 2012	0.2 % to 80%
		Silica as SiO ₂	IS 1493 (Part-1):1981	0.5 % to 25%
		Alumina as Al ₂ O ₃	IS 1493 (Part-1):1981	0.1 % to 50%
		Manganese as Mn	IS 1493 (Part-1):1981	0.1 % to 28%
		Phosphorus as P	IS 1493 (Part-1):1981	0.05 % to 0.2%
		Sulphur as S	IS 1493 (Part-1):1981	0.005 % to 0.2%
		Calcium oxide as CaO	IBM Manual -2012	0.005 % to 0.015%
		Magnesium oxide as MgO	IBM Manual -2012	0.005 % to 0.015%
		Sodium oxide as Na ₂ O	IBM Manual - 2012	0.001 % to 0.015%
		Potassium oxide as K ₂ O	IBM Manual - 2012	0.001 % to 0.015%
		Moisture as H ₂ O	IS 1493 (Part-1):1981	0.5 % to 20%
		Loss on Ignition as LOI	ISO 11536 2015	0.1 % to 10%
2.	Manganese Ores	Manganese as Mn	IS 1473 2004	5.0 % to 55%
	-	Manganese Dioxide as MnO ₂	IS 1473 2004	3.0 % to 85%
		Iron as Fe	IS 1473 2004	1.0 % to 25%
		Silica as SiO ₂	IS 1473 2004	1.0 % to 15%
		Alumina as Al ₂ O ₃	IS 1473 2004	0.01 % to 10%
		Phosphorus as P	IS 1473 2004	0.015 % to 0.2%
		Sulphur as S	IS 1473 2004	0.01 % to 0.2%
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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
3.	Lime Stone /	Calcium oxide as CaO	IS 1760 (Part-3): 1992	0.5 % to 55%
	Dolomite	Magnesium oxide as MgO	IS 1760 (Part-3):1992	0.2 % to 45%
		Silica as SiO₂	IS 1760 (Part-2): 1991	0.1 % to 20%
		Alumina as Al ₂ O ₃	IS 1760 (Part-3): 1992	0.1 % to 5%
<u> </u>		Loss on Ignition as LOI	IS 1760 (Part-1): 1991	0.1 % to 50%
4.	Quartz	Silica as SiO ₂	IS 1917 (Part-3): 1992	0.5 % to 99%
		Loss on Ignition as LOI	IS 1917 (Part-1):1991	0.1 % to 2%
II.	SOLID FUELS			
1.	Coal / Coke	Total Moisture as (TM)	IS 1350 (Part-I): 1984	1 % to 25%
		Proximate Analysis:-		
		a) Moisture as (H₂O)	IS 1350 (Part-I): 1984	0.1 % to 7%
		b) Ash	IS 1350 (Part-I): 1984	0.5 % to 60%
		c) Volatile Matter as VM	IS 1350 (Part-I): 1984	0.5 % to 50%
		d) Fixed Carbon as FC	IS 1350 (Part-I): 1984	10 % to 88%
		Sulphur as S	IS 1350 (Part-III): 1969	0.1 % to 20%
		Phosphorus as P	IS 1355 1984	0.010 % to 1%

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