

Laboratory **K. C. Sharma & Co., 3/108 (1), Taniya Hotel Lane, Maimollem, Vasco-Da-Gama, Goa**

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

Certificate Number **TC-6026 (in lieu of T-2577)**

Page 1 of 2

Validity **19.05.2018 to 18.05.2020**

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
-----	----------------------------	-------------------------	---	--

CHEMICAL TESTING

I.	ORES & MINERALS			
1.	Iron Ores	Loss on Ignition (LOI)	KCSC/SOP/LOI/12/03, Issue No.02, Issue Date: 10.06.2015	0.5% to 10%
		Iron (as Fe)	IS 1493- (Part 1) 1981 (RA-2011)	50% to 80%
		Silica (as SiO ₂)	IS 1493- (Part 1) 1981 (RA-2011)	0.5% to 15%
		Alumina (as Al ₂ O ₃)	IS 1493- (Part 1) 1981 (RA-2011)	0.5% to 8%
		Manganese (as Mn)	KCSC/SOP/MN/12/02, Issue No.02, Issue Date: 10.06.2015	0.1% to 2%
		Sulphur (as S)	IS 1493- (Part 1) 1981 (RA-2011)	0.01% to 0.5%
		Phosphorus (as P)	IS 1493- (Part 1) 1981 (RA-2011)	0.01% to 0.5%
		Moisture Content	IS 1493- (Part 1) 1981 (RA-2011)	1% to 15%
		Flow Moisture Point (FMP)	IMSBC Code (Appendix-II) EDN-2013	5% to 25%
		Transportable Moisture Limit (TML)	IMSBC Code (Appendix-II) EDN-2013	4% to 25%
2.	Limestone & Dolomite	Loss on Ignition (LOI)	IS 1760 (Part 1): 1991, (RA 2011)	10% to 46%
		Silica (as SiO ₂)	IS 1760 (Part 2): 1991, (RA 2011)	0.2% to 10%
		Calcium Oxide (as CaO)	IS 1760 (Part 3): 1992, (RA 2011)	20% to 60%
		Magnesium Oxide (as MgO)	IS 1760 (Part 3): 1992, (RA 2011)	0.5% to 25%

Laboratory **K. C. Sharma & Co., 3/108 (1), Taniya Hotel Lane, Maimollem, Vasco-Da-Gama, Goa**

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

Certificate Number **TC-6026 (in lieu of T-2577)**

Page 2 of 2

Validity **19.05.2018 to 18.05.2020**

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
II.	COAL, COKE & OTHER SOLID FUELS			
1.	Coal	Total Moisture	IS 1350 (Part-1) 1984, (RA 2013) Cl.6.3 & 6.4	10% to 50%
		Proximate Analysis, a. Moisture	IS 1350 (Part-1) 1984, (RA 2013)	2% to 20%
		b. Volatile Matter	IS 1350 (Part-1) 1984, (RA 2013)	5% to 45%
		c. Ash contents	IS 1350 (Part-1) 1984, (RA 2013)	5% to 30%
		Gross Calorific Value	IS 1350 (Part-2) 1970, (RA 2015)	2500 Kcal/kg to 8000 Kcal/kg
		Sulphur (as S)	IS 1350 (Part-3) 1969, (RA 2015)	0.1 %to 5%