Laboratory	Minerals Lab Services Pvt. Ltd., Plot No. 25-8-141, 1 st Floor, Thomson Street, Visakhapatnam, Andhra Pradesh		
Accreditation Standard	ISO/IEC 17025: 2005		
Certificate Number	TC-6350	Page 1 of 2	
Validity	27.09.2017 to 26.09.2019	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 and Coke	Total MoistureMoisture in Air-dried (ADB)Volatile Matter (VM)AshFixed CarbonGross Calorific value (GCV)	IS 1350 (Part 1): 1984 (RA 2013) IS 1350 (Part 2): 1975	5.0% to 40.0% 2.0% to 30.0% 1.0% to 50.0% 5.0% to 60.0% 15.0% to 80.0% 1000 kcal/kg to
		Sulphur	(RA 2015) IS 1350 (Part 3): 1969 (RA 2015)	7000 kcal/kg 0.004% to 6.0%
П.	ORES AND MINE	RALS		
1.	Iron Ore	Iron (Fe) Moisture SiO ₂ Al ₂ O ₃ Sulphur	IS 1493 (Part 1): 1981 (RA 2016)	30.0% to 70.0% 1.0% to 22.0% 1.0% to 15.0% 1.0% to 15.0% 0.005% to 0.030%
2.	Bauxite	Loss on Ignition (LOI)	IS 2000 (Part 1): 1985 (RA 2017)	2.0% to 40.0%
		SiO ₂	IS 2000 (Part 2): 1985 (RA 2017)	0.5% to 10.0%
		Al ₂ O ₃	IS 2000 (Part 3): 1985 (RA 2017)	25% to 55.0%
		Fe ₂ O ₃	IS 2000 (Part 4): 1985 (RA 2017)	3.0% to 25.0%
3.	Limestone and Dolomite	Loss on Ignition (LOI)	IS 1760 (Part 1): 1991 (RA 2017)	20% to 50.0%
		SiO ₂	IS 1760 (Part 2): 1991 (RA 2017)	0.1% to 10.0%

Lab	oratory	Minerals Lab Services Pvt. Ltd., Plot No. 25-8-141, 1 st Floor, Thomson Street, Visakhapatnam, Andhra Pradesh			
Acc	reditation Standard	ISO/IEC 17025: 2005			
Cer	tificate Number	TC-6350 Page 2 of 2			
Validity		27.09.2017 to 26.09.2019 Last Amend		led on	
SI.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection	
		Fe ₂ O ₃	SOP (MLS/VIZ/WI/04) -01 date.19.07.2016	0.05% to 3.0%	
		Al ₂ O ₃	IS 1760 (Part 3): 1992	0.1% to 2.5%	
		CaO	(RA 2017)	20% to 56.0%	
		MgO		0.3% to 30.0%	