

Laboratory Central Chemical Laboratory, Geological Survey of India, CHQ,
Kolkata, 15 A & B, KYD Street, Kolkata, West Bengal

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5833

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Validity 01.03.2018 to 29.02.2020

Last Amended on 05.03.2018

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.	Soil & Stream Sediment	Be	GSI/CCL/CHQ/SOP/01/01B Issue No: 03 Issue Date: 14.09.2017 Rev. No: 01 Rev. Date: 30.01.2018	0.6 mg/kg to 30 mg/kg
		Ge		0.35 mg/kg to 3.6 mg/kg
		Sn		1 mg/kg to 440 mg/kg
		Mo		0.25 mg/kg to 100 mg/kg
		La		13 mg/kg to 180 mg/kg
		Ce		33 mg/kg to 430 mg/kg
		Pr		2.8 mg/kg to 63 mg/kg
		Nd		10 mg/kg to 230 mg/kg
		Sm		2.2 mg/kg to 21 mg/kg
		Eu		0.42 mg/kg to 3.7 mg/kg
		Gd		1.9 mg/kg to 13 mg/kg
		Tb		0.3 mg/kg to 2.1 mg/kg
		Dy		1.9 mg/kg to 11 mg/kg
		Ho		0.35 mg/kg to 3 mg/kg
		Er		1.1 mg/kg to 8.6 mg/kg
		Tm		0.17 mg/kg to 1.72 mg/kg
		Yb		0.9 mg/kg to 13 mg/kg
Lu	0.15 mg/kg to 1.9 mg/kg			
Hf	1.4 mg/kg to 22 mg/kg			
Ta	0.5 mg/kg to 16.3 mg/kg			
W	0.65 mg/kg to 140 mg/kg			
U	0.9 mg/kg to 20 mg/kg			
2.	Rock	Be	GSI/CCL/CHQ/SOP/01/01D Issue No: 03 Issue Date: 14.09.2017 Rev. No: 01 Rev. Date: 30.01.2018	0.5 mg/kg to 3.75 mg/kg
		Ge		0.9 mg/kg to 1.33 mg/kg
		Sn		0.17 mg/kg to 3.51 mg/kg
		Mo		0.37 mg/kg to 318 mg/kg
		La		1.2 mg/kg to 122 mg/kg
		Ce		0.84 mg/kg to 277 mg/kg
Pr	0.48 mg/kg to 6.2 mg/kg			

Amit Kumar Sinha
Convenor

N. Venkateswaran
Program Director

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Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Nd		1.46 mg/kg to 137 mg/kg
		Sm		0.019 mg/kg to 30.2 mg/kg
		Eu		0.1 mg/kg to 7.6 mg/kg
		Gd		0.27 mg/kg to 8.01 mg/kg
		Tb		0.076 mg/kg to 4.8 mg/kg
		Dy		0.37 mg/kg to 10.5 mg/kg
		Ho		0.11 mg/kg to 5.8 mg/kg
		Er		0.3 mg/kg to 14.6 mg/kg
		Tm		0.053 mg/kg to 2.1 mg/kg
		Yb		0.022 mg/kg to 13.8 mg/kg
		Lu		0.076 mg/kg to 2.1 mg/kg
		Hf		0.19 mg/kg to 5.14 mg/kg
		Ta		0.13 mg/kg to 2.29 mg/kg
		W		17.1 mg/kg to 23 mg/kg
		U		0.036 mg/kg to 10.9 mg/kg