

Laboratory Sovereign Metals Limited, Plot No. 35, 36, 37, 38 and 40B, Naroda
GIDC, Phase III, Ahmedabad, Gujarat

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6718

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Validity 30.01.2018 to 25.10.2019

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
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CHEMICAL TESTING

I.	METAL AND ALLOYS			
1.	Gold Bullion, Gold Alloys	Fineness of Gold By Cupellation (Fire Assay Method)	IS1418	375.0 g/kg to 999.0 g/kg (375.0 to 999.0 parts per thousand by mass)
2.	Gold Alloy	Fineness of Gold By Cupellation (Fire Assay Method)	ASTM E1335 (Method A)	200.0 g/kg to 375.0 g/kg (200.0 to 375.0 parts per thousand by mass)
3.	Precious Metal in 999 ppt gold, Jewellery Alloys	Fineness of Gold By Difference Method	ISO15093 (ICP-OES)	
		Ag		0.08 mg/kg
		Bi		0.55 mg/kg
		Cd		0.02 mg/kg
		Co		0.02 mg/kg
		Cu		0.04 mg/kg
		Fe		0.07 mg/kg
		Ir		0.34 mg/kg
		Mn		0.02 mg/kg
		Ni		0.04 mg/kg
		Pb		0.10 mg/kg
		Pd		0.17 mg/kg
		Pt		0.21 mg/kg
		Rh		0.28 mg/kg
		Ru		0.17 mg/kg
		Sn		0.06 mg/kg
		Ti		0.02 mg/kg
		Zn		0.01mg/kg
		Au (By Diff. Method)		999.0 g/kg to 999.9 g/kg (999.0 to 999.9 parts per thousand by mass)

Ramprasath. R
Convenor

N. Venkateswaran
Program Director

Laboratory

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4.	Silver in 999 PPT Silver, Jewellery Alloys	Fineness of Silver By Difference Method	ISO15096 (ICP-OES)	
		Al		0.09 mg/Kg
		As		0.22 mg/Kg
		Au		0.55 mg/Kg
		Bi		0.18 mg/Kg
		Cd		0.02 mg/Kg
		Co		0.02 mg/Kg
		Cr		0.05 mg/Kg
		Cu		0.04 mg/Kg
		Fe		0.07 mg/Kg
		Mg		0.04 mg/Kg
		Mn		0.02 mg/Kg
		Ni		0.04 mg/Kg
		Pb		0.10 mg/Kg
		Pd		0.17 mg/Kg
		Pt		0.21 mg/Kg
		Sb		0.19 mg/Kg
Se		0.13 mg/Kg		
Sn		0.06 mg/Kg		
Te		0.025 mg/Kg		
Ti		0.02 mg/Kg		
Zn		0.0 1 mg/Kg		
		Ag (By Diff. Method)		999.0 g/kg to 999.9 g/kg (999.0 to 999.9 parts per thousand by mass)
5.	Silver & Silver Alloys	Silver Fineness	ISO11427:2014(E) (Potentiometric Method)	800.0 g/kg to 990.0 g/kg (800.0 to 990.0 parts per thousand by mass)
			IS 2113:2014 Gravimetric Method	800.0 g/kg to 999.0 g/kg (800.0 to 999.0 parts per thousand by mass)

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