

Laboratory Shirpur Gold Refinery Limited, Quality Assurance Laboratory,
Dahiwad, Shirpur, Dist. Dhule, Maharashtra

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-6914 (in lieu of T-2885)

Page 1 of 2

Validity 11.03.2018 to 10.03.2020

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
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CHEMICAL TESTING

I.	METALS AND ALLOYS			
1.	Precious Metal			
a.	Gold Bullion, Gold Alloys & Gold Jewellery / Artefacts	Gold Content Cupellation-Fire Assay	IS1418	375 g/kg to 999 g/kg (375 to 999 parts per thousand by mass)
b.	Gold Jewellery / Alloys	Fineness of Gold by Difference method Trace Metals	ISO 15093 (ICP-OES)	
		Bi		(0.0095 to 100) mg/kg
		Cd		(0.0005 to 100) mg/kg
		Co		(0.0013 to 100) mg/kg
		Cu		(0.0005 to 100) mg/kg
		Fe		(0.0018 to 100) mg/kg
		Ir		(0.0032 to 100) mg/kg
		Mn		(0.0001 to 100) mg/kg
		Ni		(0.0013 to 100) mg/kg
		Pb		(0.0115 to 100) mg/kg
		Pt		(0.0031 to 100) mg/kg
		Pd		(0.0017 to 100) mg/kg
		Rh		(0.0017 to 100) mg/kg
		Ru		(0.0024 to 100) mg/kg
		Sn		(0.0202 to 100) mg/kg
		Ti		(0.0003 to 100) mg/kg
		Zn		(0.0006 to 100) mg/kg
		Ag		(0.0005 to 100) mg/kg
		Au		995 g/kg to 999 g/kg (995 to 999 parts per thousand by mass)

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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
c.	Silver Jewellery / Alloys	Fineness of Silver by Difference method Trace Metals	ISO 15096 (ICP-OES)	
		Au		(0.0021 to 100) mg/kg
		Bi		(0.0143 to 100) mg/kg
		Cd		(0.0007 to 100) mg/kg
		Co		(0.0016 to 100) mg/kg
		Cu		(0.0008 to 100) mg/kg
		Cr		(0.0050 to 100) mg/kg
		Fe		(0.0220 to 100) mg/kg
		Mn		(0.0040 to 100) mg/kg
		Ni		(0.0031 to 100) mg/kg
		Pb		(0.0160 to 100) mg/kg
		Pd		(0.0017 to 100) mg/kg
		Pt		(0.0096 to 100) mg/kg
		Sb		(0.0411 to 100) mg/kg
		Se		(0.0433 to 100) mg/kg
		Sn		(0.0288 to 100) mg/kg
		Te		(0.0186 to 100) mg/kg
		Ti		(0.0186 to 100) mg/kg
		Zn		(0.0007 to 100) mg/kg
		Si		(0.0041 to 100) mg/kg
		Al		(0.0009 to 100) mg/kg
		As		(0.0110 to 100) mg/kg
		Mg		(0.0081 to 100) mg/kg
		Ag		995 g/kg to 999 g/kg (995 to 999 parts per thousand by mass)