

Laboratory Emerald Jewel Industry India Limited, Laboratory, N.S.N., Palayam  
(Post), Coimbatore, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-7762

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Validity 30.08.2018 to 29.08.2020

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 & ALLOYS			
1.	Gold, Gold Jewellery, Bullion, Alloys and Artifacts	Gold content	IS 1418:2009 Fire Assay (Cupellation) method	375.0 PPT to 999.0 PPT
2.	Precious Metal in 999 ppt gold , jewellery alloys	Trace element analysis (Impurities) in Gold sample	ISO 15093:2015 (ICP-OES)	
		Silver		0.0097 mg/kg to 100 mg/kg
		Bismuth		0.0076 mg/kg to 100 mg/kg
		Cadmium		0.0003 mg/kg to 100 mg/kg
		Cobalt		0.0006 mg/kg to 100 mg/kg
		Copper		0.0046 mg/kg to 100 mg/kg
		Iron		0.0025 mg/kg to 100 mg/kg
		Iridium		0.0100 mg/kg to 100 mg/kg
		Manganese		0.0003 mg/kg to 100 mg/kg
		Nickel		0.0017 mg/kg to 100 mg/kg
		Lead		0.0030 mg/kg to 100 mg/kg
		Palladium		0.0047 mg/kg to 100 mg/kg

Gaurav Saini  
Convenor

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		Platinum		0.0046 mg/kg to 100 mg/kg
		Rhodium		0.0042 mg/kg to 100 mg/kg
		Ruthenium		0.0026 mg/kg to 100 mg/kg
		Tin		0.0067 mg/kg to 100 mg/kg
		Titanium		0.0004 mg/kg to 100 mg/kg
		Zinc		0.0009 mg/kg to 100 mg/kg
3.	Silver & Silver Alloys	Silver content	IS 2113:2014 Potentiometric Method	800 PPT to 995 PPT