



रत्न परीक्षण प्रयोगशाला

रत्न तथा आभूषण निर्यात संवर्धन परिषद

वाणिज्य मंत्रालय, भारत सरकार द्वारा प्रायोजित, जयपुर

Gem Testing Laboratory

THE GEM & JEWELLERY EXPORT PROMOTION COUNCIL

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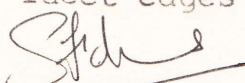
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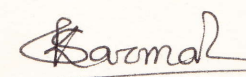
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G.T.L. LAB INFORMATION CIRCULAR NO. 005

1. Chrysoberyl/Alexandrite Cat's Eye: This month a fairly large percentage of Chrysoberyl and Alexandrite Cat's Eye were brought in for testing. The sizes ranged from 1.00 ct. to 10.00 cts.
 - a. Chrysoberyl Cat's Eye: Semi-transparent, well cut cabochons, with yellow, green and bluish green colour. The properties are typical for chrysoberyl, R.I. 1.75 (spot), chrysoberyl spectrum (444 nm), weak pink under U.V. lamp and under magnification fine parallel needle like inclusions and fingerprints seen.
 - b. Alexandrite Cat's Eye: Bluish green coloured cabochons with fine cat's eye. The properties are typical for Alexandrite and it shows clear colour change in lamp light from bluish green to brownish red/red. In most of the stones the Alexandrite spectrum was very clear, S.G. 3.71 (Hydrostatic).
2. Kunzite: A purplish pink coloured faceted stone with clear specimens, in sizes of over 10 cts. The properties are typical for kunzite (a variety of Spodumene) R.I. 1.66 - 1.68, chalky pink under U.V. light, S.G. 3.18 (Hydrostatic), under magnification cleavage cracks seen.
3. Sapphire (Coated): Well cut transparent faceted yellow sapphire. Properties are typical for corundum with R.I. 1.76 - 1.77, yellowish under U.V. lamp, under magnification diffused silk and healed fingerprints and a yellow coloured coating on the pavilion facets is distinctly seen.
4. Natural Zircon: Purple red transparent stones, similar in colour to a red Garnet, properties are typical for Natural Zircon with R.I. Over 1.81 Range, strong yellow under S.W. U.V. lamp, it shows clear zircon spectrum (6535A⁰), under magnification crystals, fingerprints and doubling of facet edges are seen.


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