

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

Sponsored by Ministry of Commerce, Government of India, JAIPUR

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ग्राम्स/Grams : GEJEXCON

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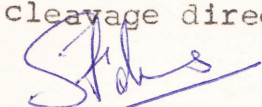
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G.T.L. LAB INFORMATION CIRCULAR No. 004

In November '94 we have certified a number of gemstones. A few interesting stones were:

1. Sphene:- Transparent well cut yellowish green in colour. The properties are typical for sphene. R.I. over 1.81 range and S.G. of 3.53 (Hydrostatic), under U.V. lamp it shows weak red, under magnification strong doubling of inclusions and facet edges and fingerprints were observed.
2. a) Yellow Fluorite: Yellow cabochons of Fluorite similar in colour to citrine or yellow scapolite. Properties typical for fluorite. Under magnification fingerprint and iridescent cleavage cracks are seen and strong violet fluorescence under U.V. light.
b) Fluorite (Coated): Both drilled and undrilled with green colour coating on surface. The properties are typical for fluorite. R.I. 1.43 (Spot), and bright violet under U.V. lamp it also shows moderate red under chelsea filter. Under magnification cleavage cracks and green colour coating on surface was observed. Coating appears to be a sort of plastic material and contained gas bubbles. It was also affected by a hot point.
3. Quartz: a) Quartz (Coated): Well cut cabochon, emerald green in colour over 20 cts. in size. The properties are typical for quartz. R.I. 1.54 (Spot), under spectroscopic examination it shows a dye spectrum. The body colour of stones was colourless and the green colour coating on surface was clearly visible and appeared similar to the coating seen on the fluorite specimens.
b) Quartz (Dyed): Well shaped cabochon, ruby red colour, number of surface reaching fractures which are obviously filled with red colour. The properties are typical for quartz, dye spectrum and a patchy yellow fluorescence along fractures under U.V. is seen.
4. Apophyllite: A colourless, transparent rough crystal with a prismatic, twinned habit. The properties were typical for apophyllite. R.I. 1.53 - 1.54, hardness between 4 to 5 on Moh's Scale, and S.G. 2.50 (Appx), the crystal showed clear cleavage direction and a weak pink under U.V. light.


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