THE GEM & JEWELLERY EXPORT PROMOTION COUNCIL

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Gem Testing Laboratory
THE GEM & JEWELLERY EXPORT PROMOTION COUNCIL
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LAB INFORMATION CIRCULAR No. 012

In the month of July '95, a number of different stones were examined and certified at Gem Testing Laboratory. A few interesting stones were.

1. (a) Dyed Quartz: Well cut ~~and~~ cabochon ~~with~~ emerald green in colour, number of surface reaching fractures which were obviously filled with green colour. The properties were typical for quartz. Patchy yellow fluorescence and dyed spectrum is seen.

   Similarly some stones were dyed ~~with~~ blue ~~colour~~. The colour was like Sri Lankan Blue Sapphire, but properties were typical for quartz, R.I. 1.54 - 1.55, showing cobalt spectrum, and blue colour in surface reaching cracks were seen.

   (b). Coated Quartz: Well cut faceted stone, Emerald green in colour, the properties were typical for quartz, S.G. 2.65 (Approx), R.I. 1.52 (on coated surface), dyed spectrum, showing strong red under chelsea filter, stone was D.R. under polariscope but under dichroscope it shows S.R. reaction, under magnification fingerprints and green colour coating on surface was observed.

2. Garnet Dyed: Semi translucent well cut, with a fine ruby red coloured stone, the properties were typical for Garnet. R.I. 1.74 with number of surface reaching cracks which were obviously filled with red colour, the body colour of the stone was colourless, so red colour along fracture were clearly visible in M.I. liquid. It also shows dyed spectrum and S.G. 3.60 (Hydrostatic).

3. Calcite: Colourless transparent faceted drilled bead. The properties were typical for calcite, R.I. 1.48 - 1.65, under magnification - crystal, fingerprints, irridescent cleavage cracks and doubling of inclusions and facet edges were seen. Under U.V. pinkish fluorescence is observed.