Quotation Notice

Department of Optoelectronics, University of Kerala is having a LABRAM-HR-UV High Resolution XTOT MICRO RAMAN System. We would like to up-grade the system with multiple wavelength excitation, temperature dependant measurements and mapping facility. Quotations are invited for the following up-gradation in the existing LABRAM-HR-UV High Resolution XTOT MICRO RAMAN System:

1. **He-Ne laser with accessories**
   Wave length of 633nm, output power 17 mW or better with necessary optics and software for recording the Raman Spectrum from 50 cm\(^{-1}\). This laser setup should be internally mounted in the present system.

2. **Mapping facility**
   Sample positioning including XY motorized stage, X = 75 mm - Y= 50 mm, micrometric motorized Z device for BX41 and BxFM microscopes controlled by suitable software. XY specifications: minimum step size = 10 nm; repeatability = 1 µm; resolution: 100 nm Z specifications: resolution (minimum step size) = 0.01micron. Joystick for positioning, external controller, necessary software package and Raman autofocus capability.

3. **Visible Polarizer facility**
   One analyser and two polarizers with holder to visualise the sample in polarised white light by reflection and transmission on microscopes BX41 or BxFM; suitable source should be provided.

4. **Micro thermometric cell for low and high temperature Raman measurements**
   Controlled by suitable software
   Working temperature: -196°C to 600°C
   Sample area: diameter- 22 mm and height-1mm
   Cooling mechanism for high temperature measurements and LN2 cooling device for low temperature measurements.
5. Any other items like Optics / software which are essential for this upgradation of present setup

General Conditions:-

1. Sealed quotations should be sent to the Professor & Head, Department of Optoelectronics, University of Kerala, Kariavattom-695581, Trivandrum, Kerala.

2. The price quoted should be inclusive of all taxes, duties, delivery, commissioning and other charges

3. Detailed brochures/information sheets of the products must be furnished.

4. The offers should be valid at least 90 days from the date of opening of the tender.

5. Delivery and installation should be made at the Department of Optoelectronics, University of Kerala, Kariavattom campus, Trivandrum without extra cost.

6. The up-gradation should not affect the performance the existing setup

7. Please quote the price of each item in the quotation separately.

The firms who wish to supply the items are requested to submit the quotations in sealed cover to the undersigned on or before 07.08.2015.

14.07.2015

[Signature]

Professor & Head

PROFESSOR & HEAD
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