Raman Spectroscopy Laboratory

(Model: T64000, Horiba, France)

Central Research Facility, IIT Kharagpur-721302

ANALYSIS REQUISITION FORM

SIGNATURE OF THE OPERATOR

Declaration by the user

The results recorded, if communicated for publication, will acknowledge this facility at CRF

NOTES:

T64000 micro-Raman spectrometer is equipped with triple monochromator spectrographs, 1800 grooves/mm grating, and an open-electrode CCD detector. The present configuration is set in the subtractive mode. The instrument is designed for high-end Raman measurements. As the light passes through three monochromators, the intensity of the signal is weak. However, one can achieve a resolution between 0.8 and 0.5 cm⁻¹ depending on the chosen wavelength of excitation.

At present, the spectrometer is NOT suitable for samples with strong photoluminescence or fluorescence or any source of elastic scattering background.

For more details see https://www.cnsi.ucsb.edu/sites/default/files/2022-02/t64000_brochure.pdf

At present, the operator is trained for basic room-temperature unpolarised Raman measurements.

For <u>technical queries</u> please feel free to contact <u>anushree@phy.iitkgp.ac.in</u>

For <u>non-technical queries</u>, you may contact debashis@admin.iitkgp.ac.in