



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION

Powai, Mumbai 400076.

Reference (PR No. 1000015423) RfX No.6100000731

Technical Specifications of Transient Absorption Spectrometer System :

1. Fully automated system for transient absorption measurements in nanosecond , microsecond and millisecond time domain
2. 200-800 nm Spectral range with appropriate optics and opto-mechanics
3. Coupling optics for external Nd:YAG laser (not-required) for second (532 nm), third (355 nm) and fourth (266 nm) harmonics for sample excitation
4. High-intensity pulsed 450W Xenon lamp
5. Sample chamber with excitation and probe light delivery optics
6. Sample holder for standard liquid sample cells, solid samples and thin films
7. Monochromator type: Czerny-Turner with Triple Grating Turret (100-200 mm focal length) with ruled grating (1800 groves/mm); Slits 0.1nm to 4 mm (continuously adjustable), Spectral resolution: 0.1-7 nm.
8. Detector type: Photomultiplier with 5 stage dynode chain for high current linearity
9. Warranty : 1 Year