

NATIONAL INSTITUTE OF TECHNOLOGY,
TIRUCHIRAPPALLI - 620 015

Tender Notification No.7/2007

Department of Chemistry

Item No. 07. Spectrofluorophotometer

Specification for Spectrofluorophotometer

Microprocessor based model with LCD computer display for operation on 220V/50Hz.

Excitation /emission Monochromators	: Concave, blazed holographic grating
Wavelength range	: 220-900 nm
Measuring wavelength range	: 220-900 nm with photomultiplier
Spectral bandwidth	: 6-step selection
Wavelength accuracy	: ± 1.5 nm
Light source compensation	: Feedback system with monochromatic light monitoring
Sensitivity	: S/N ratio is 150 or higher for Raman lines
Wavelength Slewing speed	: About 30000 nm /min
Response	: 9 step selection
Sensitivity Selection	: High and low
Interface	: Necessary interface is required
Operational Temperature range	: 15-35°C
Measurement	: Excitation, emission and synchronous spectrum, etc.
Data Processing	: Arithmetic calculation between spectra and between a spectrum, conversion into ASCII & DIF formats
Quartz cell polished on four sides	
Micro cell holder	
Solid sample holder	