



**CHRISTIAN COLLEGE**  
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Tender No – CCC/DSTFIST/2015/1

**[Kindly enclose a signed copy of this document along with the TENDER DOCUMENT]**

### **PURCHASE OF FLOURIMETER AND IR SPECTROMETER**

Contact Person for Technical Clarification Regarding Flourimeter: Dr. R Jayakrishnan, Assistant Professor, Mobile: 9447242210 email [rjayakrishnan2002@yahoo.co.in](mailto:rjayakrishnan2002@yahoo.co.in) and regarding IR Spectrometer Dr. Sujesh Baby, Assistant Professor – Mob: 9446963119, email: [sujeshbaby@gmail.com](mailto:sujeshbaby@gmail.com)

To purchase Tender form contact Dr. Hysen Thomas, Assistant Professor, mob: 9446974398, email: [hysenthomas@gmail.com](mailto:hysenthomas@gmail.com)

The soft copy of TENDER FORMS can be obtained by contacting Dr. Hysen Thomas. . In such cases separate DD for the cost of Tender forms and EMD drawn in favour of Principal, Christian College, Chengannur payable at CANARA Bank Chengannur, Alappuzha District Kerala should be enclosed with the Tender Document.

Cost of Tender Form: Rs 5100+ Rs. 255

EMD: Rs. 34000/-

Last Date of Sale of Tender Forms: 10/10/2015 02:00 pm

Last Date of Submission of Tenders 10/10/2015 04:00 pm

Date of Opening Tender: 11/10/2015 10:00 am at Audio Visual Room, Christian College, Chengannur

### **SPECIFICATIONS OF FLOURIMETER**

- System should be capable of doing fluorescence emission spectrum; fluorescence excitation spectrum; synchronous fluorescence spectrum; single beam emission spectrum and single beam excitation spectrum.
- Auto gain and sensitivity control
- Excitation wavelength: 200- 600 nm
- Detection wavelength: 250-1000 nm

- Resolution : 1.0 nm
- S/N 5,000:1
- Automatic cut filter for higher-order diffraction
- Fast data acquisition
- Validation accessory as standard

#### **IR SPECTROMETER IR SPECTROMETER**

- Interferometer: - Rotary Michelson Interferometer with freedom from mirror tilt should be no need for dynamic alignment.
- Beam Splitter: KBr with inbuilt moisture protection system.
- Wave number range: 8300 cm<sup>-1</sup> to 350 cm<sup>-1</sup>
- Resolution: 0.5 cm<sup>-1</sup>
- Light source: Long-life source with hot-spot stabilization. User replaceable from outside the instrument
- Wavelength Accuracy: 0.1 cm<sup>-1</sup> at 3000 cm<sup>-1</sup> or better
- Wavelength Precision: Better than 0.01 cm<sup>-1</sup> at 3000 cm<sup>-1</sup> or better
- spectral comparison algorithm and Euclidean searching.: Spectral searching against commercially available or customer- developed libraries.
- Accessories for Reflectance mode: ATR with pure Diamond crystal for liquid, solid, semi liquid, powder and Film sample analysis. With range from 350 to 8300 Cm<sup>-1</sup>
- Transmission mode accessories with KBr dye, pellet press, demountable liquid cell holder etc also have to be quoted.
- A pair of KBr windows also have to be quoted separately.
- Branded PC, Printer, hydraulic press & 2 KVA UPS have to be quoted.

For any clarification regarding tendering process kindly contact

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