



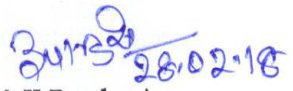
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**SUB : FINAL AND FROZEN TECHNICAL SPECIFICATION FOR
DISPLAY ON NIC'S CPP PORTAL & CSIR-IICB'S WEBSITE.**

**REF : PRE-BID CONFERENCE HELD ON 23.02.2018 AT 03:30PM
(IST) AT CSIR-IICB, KOLKATA.**

Sl. No.	Name of the Item/Description	Qty	Earnest Money Deposit (EMD) to be submitted along with Technical Bid		
			INR ₹	US \$	Euro €
1.	Enq No. IICB/PUR/599/566/495/2017-18	01 Unit			
	"Fluorimeter"		50000.00	777.00	634.00
Last date and time of Submission of bids/quotations by the prospective bidders in Two-Bid format as per tender document against final/frozen technical specifications by CSIR-IICB after Pre-Bid Conference		26.02.2018 upto 05:00 PM (IST)			
Date and Time of Opening of Technical Bids		16.03.2018 at 03:30 PM (IST) onwards			
Venue of Opening of Technical Bids		NIC's CPP Portal			
Tenders to be submitted at		NIC's CPP Portal			


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Fluorescence Spectrophotometer Specifications

- Measurement techniques should be Fluorescence, Phosphorescence, Luminescence, 3 dimensional time scan measurement.
- Should be equipped with a Cuvette system and have a microplate reader.
- System should be satisfied precision machining technology for bright optics System.
- Should have double diffraction gratings, one for excitation side and one is for fluorescent light side.

Sensitivity	: Should be with Higher sensitivity with S/N 15000:1 or better (RMS) using Raman band of water S/N 250 or better (Peak to Peak), Excitation wavelength 350 nm, bandwidth 5 nm, response 2s .
Wavelength Scan speed	: 24,000 nm/min or better
Wavelength range	: Excitation (200-800 nm), Emission (200 – 900 nm).
Optics	: Monochromator based.
Variable Spectral bandwidth:	Both for Excitation and emission side: 1.5, 2.5, 5, 10 & 20 nm etc or better.
Wavelength accuracy	: ±1 nm or better
Wavelength repeatability	: 0.5 nm or better
Detector	: Photomultiplier tube (PMT)
Light source	: Ozone free Xenon lamp, with at least 120W power, with self-deozonating lamp house.
Resolution	: 1.5 nm or better.
Standard Software	: Standard Software should have program for controlling the instrument & its accessories. Time scan measurement and Data-processing features such as quantitative analysis, cumulative data averaging, first to fourth order differentiation, statistic calculation, wavelength scan measurement, time based measurement such phosphorescence life time, Data export to Microsoft Excel etc.

Essential Accessories:

- A 96 well microplate reader
- One long life 120W Xe lamp
- Polarizer: POLARIZATION ACCESSORIES UV-VIS, Wavelength range 260 to 700 nm.
- Quartz Cell for Fluorescence, 10 mm pathlength, 1 pair (700 µL), 1 pair (100 µL)
- A suitable Desktop (Dual Core i7, Minimum 8TB of Hard drive and 8 GB RAM with Graphic card (4 GB) and USB etc) with printer to run the FI solution software.
- Please quote other accessories like thermostated cell holder with stirrer etc.
- Three year warranty
- System must be CE & ISO certified
- Good quality chiller (specifications: Temperature range: -25 °C to 150 °C, temperature control accuracy (± 0.5 °C), Cooling capacity (450W at 10 °C), Maximum flow rate 5 L/min, The instrument should have an inbuilt digital display. The instrument should have accuracy in temperature control for at least ±1 °C (within one degree centigrade). The necessary tubing and fitting should be provided.

All the above specifications should be mentioned in printed literature of manufacturer. Quoted company must have factory trained experienced engineer & Kolkata based service station for rendering effective after sale service. Installation and training will be provided by vendor.

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