



INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai - 400076

Date 03.02.2025

Corrigendum – III

PR: 1000044187

RFx. 6100001987

Spectrofluorometer

Sr. No.	Online RFx Clause / Item Description	Previous Clause	Changed Clause
1.	Source CW ozone-free xenon arc lamp	350W	150 W
2.	Base Detector Photomultiplier R928P,	185 to 900 nm, air-cooled and stabilized	Lower wavelength range- 185 nm to 240 nm, Upper wavelength range- 850 nm, to 900nm TE-cooled and stabilized or air cooled stabilized
3.	Integrating Spheres for PLQY	external 150 mm sphere with 2 quantities	Internal diameter 121 mm to 150 mm sphere with 2 quantities, (extra needed)
4.	Thin Film Temperature dependent measurement assembly preferably	77 k to 523 k.	77 K to 500 K
5.	Warranty	A warranty of 5 years is mandatory	A warranty of 1 years with 2 years extended warranty
7.	Bid submission End Date/Date & Time of submission (Online RFx clause)	03.02.2025 at 13.00	10.02.2025 at 13.00
8.	Bid Opening Date & Time (Online RFx clause)	03.02.2025 at 16.00	10.02.2025 at 16.00

03/02/2025

Dy. Registrar (MM)

Materials Management Division



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Ref. PR No. 1000044187

Rfx. No. 6100001987

Revised Technical Specifications for Spectrofluorometer -1 No.

Sr.No	Item Description	Detailed Technical Specification	Technical Compliance (Yes / No)	Additional Information (if any)
1	Source CW ozone-free xenon arc lamp	150 W		
2	Monochromators Czerny-Turner design with plane gratings for optimized focus at all wavelengths and minimum stray light	Required		
3	Excitation Grating blazed at 330 nm	1200 groove/mm		
4	Emission Grating blazed at 500 nm	1200 groove/mm		
5	Bandpass	0 to 30 nm continuously adjustable		
6	Wavelength Accuracy	± 0.5 nm or better		
7	Integration Time	1 ms to 160 s		
8	Base Detector Photomultiplier R928P,	Lower wavelength range- 185 nm to 240 nm, Upper wavelength range- 850 nm, to 900nm TE-cooled and stabilized or air cooled stabilized		
9	Reference Detector UV-enhanced silicon photodiode	Required		
10	Standard Filter Holders for Excitation and Emission Path 2" square filters can be added for any specific use	Required		
11	Sensitivity	10,000:1		

12	Steady state reaction kinetics acquisition rate	1 KHz to 0.02 Hz		
13	Integrating Spheres for PLQY	Internal diameter 121 mm to 150 mm sphere with 2 quantities, (extra needed)		
14	Filter holder with Filters included	Required		
15	Quartz cell	6		
16	Solid Sample Holder	2		
17	Thin Film Temperature dependent measurement assembly preferably	77 K to 500 K		
18	Software Software for the control of the instrument and data analyses with configured computer+ Monitor	Required		
19	Training The quote should include cost of installation, acceptance tests, demonstrating performance, and operational training of 5 people.	Required		
20	Other requirements Availability of spare parts: The vendor has to guarantee that all the spares for the offered spectrofluorometer and attachments will be available for at least the next 10-15 years. Pre-installation requirement (electrical, humidity and gas, etc.) Should be mentioned along with the offer.	Required		
21	Power Supply + 6 KVA UPS Suitable UPS (true sinewave; online, one phaseout) for 1 hour of back up should be provided. All equipment should operate with 220 V, 50 Hz power supply.	Required		
22	Documentation Complete product manual must be provided, that covers the operation, basic troubleshooting, calibration procedure, and maintenance.	Required		
23	Warranty A warranty of 1 years with 2 years extended warranty	Required		