INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH THIRUVANANTHAPURAM [IISERTVM]

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GST NO.32AAAJI0299R1ZS

IISER/PUR/1237/AL/SC/25-26 16.12.2025

CORRIGENDUM

Sub: Supply, installation and commissioning of Modula Photoluminiscence Spectrometer : reg

Ref: Tender ID: 2025_IISRT_885860_1

1. Based on the clarification request from bidder the revised technical specification is placed at Annexure 1 to this corrigendum.

2. The due dates are extended as follows:-

Bid submission end date: 22.12. 2025 (1500 Hrs)
Bid opening date: 23.12.2025 (1530 Hrs)

3. All other Terms and Conditions remain the same. Bidders may quote accordingly

Thanking You,

Yours Faithfully

Amar Sadath
16/12/25

Assistant Registrar (P&S)

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Annexure 1 to corrigendum No IISER/PUR/1237/AL/SC/25-26

dated 16 Dec 2025

Technical Specifications:

S. No	**Modular Photoluminescence Spectrometer with following capabilities:** Steady-state and time-resolved photoluminescence measurements Fluorescence, Phosphorescence, Time-correlated single-photon counting (TCSPC) *[Excitation, emission, constant wavelength synchronous, and constant energy synchronous spectral scanning; 3D excitation/emission scans]*	
	Earlier Specs	**Modified Specs**
1	**Sources:** ps-Diode Lasers with preferable optical output of pulse width of <100 ps, power >100 mW, and repetition rate up to 100 MHz. Excitation wavelengths: 300 ± 10 nm, 375 ± 10 nm, 405 ± 10 nm, 440 ± 10 nm, 470 ± 10 nm, 510 ± 10 nm, 590 ± 10 nm Auto selection of repetition rate to suit selected time range.	**Sources:** ps-Diode Lasers with preferable optical output of pulse widths <100 ps, and repetition rate: 2.5 kHz to 20 MHz. Excitation wavelengths: 375 ± 10 nm, (peak power ~120 mW at 10 MHz) 405 ± 10 nm, (peak power ~100 mW at 10 MHz) 440 ± 10 nm, (peak power ~50 mW at 10 MHz) 470 ± 10 nm, (peak power ~80 mW at 10 MHz) 510 ± 10 nm, (peak power ~80 mW at 10 MHz) 635 ± 10 nm, (peak power ~30 mW at 10 MHz) 280 ± 10 nm (pulse width ~1ns, avg power ~4 microW) Auto/Manual selection of repetition rate to suit selected time range.
2	**Monochromator:** Czerny-Turner design with plane gratings for optimized focus at all wavelengths and minimum stray light (double monochromator for excitation and emission) Focal length: ~320 mm Bandpass: 0-25 nm, continuously variable	**Monochromator:** Czerny-Turner design with plane gratings for optimized focus at all wavelengths and minimum stray light (double monochromator for excitation and emission) Focal length: ~320 mm Bandpass: 0.01-13 nm, continuously variable
3	**Detectors:** Detection Range: 200 nm to ~1700 nm. Photomultiplier detector(s) with cooled housing (TE or LN_2) and stabilized. Spectral bandwidth: 1.0 to 20 nm or better (continuously variable and computer controlled) Signal to noise ratio: >20,000:1	**Detectors:** Detection Range: 200 nm to ~1700 nm. Photomultiplier detector(s) with cooled housing (TE or LN_2) and stabilized. Spectral bandwidth: 0.01 to 13 nm or better (continuously variable and computer controlled) Signal to noise ratio: >20,000:1

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	Dark count: <80 cps	Dark count: <80 cps for visible and <80000 cps for N.R
4	**Sample Chamber:** Helium Cryostat (closed loop)	**Sample Chamber:** I. Helium Cryostat (closed loop) Temperature range: 10-400 K, for solid samples, Vertically freely standing with lifting mechanism to raise and lower samples when other measurements are done, Ultra-high vacuum pumping station (10^{-7} torr) II. Cuvette pairs: 3.5 mL- 2 Nos III. Solid sample holder/accessory
5	**Software/Measurements:** * Time-resolved emission spectra (TRES) for Fluorescence and Phosphorescence * Lifetime kinetics * Time-resolved anisotropy * Excitation-Emission Maps * One package for system control, data collection and analysis * Automated polarizers for anisotropy measurements (Steady State & TCSPC) * Suitable Peltier temperature controller for measuring PL of liquid samples in the range of 0 deg C to 100 deg C. * Steady-state Absorption	**Software/Measurements:** No change
6	**Suitable Computer:** Laptop or PC with monitor, keyboard, and mouse for the operations and experiments Software should be pre-installed, user friendly, original licensed Windows based operating Backup software in the form of CD ROM/pendrive, it should have built in features like facility for scan application, kinetics.	**Suitable Computer:** No change
7	**Installation and Training:**	**Installation and Training:** No change

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	Installation and training at the user's facility, lasting up to three days by trained system engineer Similar equipment should have been installed in government organizations in India during last 2-3 years.	
8	Accessories/Optional: (i) Cuvette pairs 3.5 mL– 2 Nos (ii) Solid Sample Accessory. (iii) Tunable picosecond light source (supercontinuum laser, wavelength range: ~360-2000 nm, ~200 ps, rep-rate: 10 kHz to 1 MHz)	Accessories/Optional: The following have been removed I. Cuvette pairs 3.5 mL – 2 Nos II. Solid Sample Accessory
9	Warranty 3-Years	Warranty No change

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16/12/25