



جامعة السلطان قابوس
Sultan Qaboos University

Requisition Form

Requisition Number: 7024/26/0034

Last Date for Submission: 13/07/2026

S.N.	SQU Product Code	Description	Qty	UOM	Remarks
1	EQUEQUHER0066	UV-VIS -DRS SPECTROPHOTOMETER	1	Nos	The offered UV-Vis spectrophotometer shall be brand new, of the latest available model, and comply with the following minimum technical specifications: - General Requirements - Research-grade UV-Visible spectrophotometer. - Double-beam optical system. - Computer-controlled operation with dedicated software. - Complete installation, calibration, commissioning, and user training by the supplier. - Optical System - Double-beam optical design. - High-quality diffraction grating monochromator or equivalent optical system suitable for research-grade UV-Vis measurements. - Automatic lamp switching between UV and visible light sources. - Wavelength Range 190–1100 nm or wider. - Spectral Bandwidth - Spectral bandwidth of 1 nm or lower, or variable bandwidth including 1 nm or lower. - Wider selectable bandwidths are preferred for flexible measurements. - Wavelength Performance - Wavelength accuracy: ± 0.3 nm or better. - Wavelength repeatability: ± 0.1 nm or better. - Photometric Performance - Photometric range: at least 3.0 to +3.0 Abs; wider range is preferred. - Photometric accuracy: ± 0.003 Abs or better. - Photometric repeatability: ± 0.002 Abs or better. - Optical Performance - Stray light: 0.05% or better. - Low baseline noise and good long-term baseline stability suitable for research applications. - Light Sources - The instrument shall include

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					suitable UV and visible light source(s), such as deuterium/tungsten-halogen lamps or xenon lamp technology, covering the full wavelength range of 190–1100 nm or wider. • Automatic source/lamp switching shall be available where applicable. • Long-life light source(s) with stable output suitable for research-grade UV-Vis measurements are preferred. 10. Software The supplied software shall include, as a minimum: • Spectrum scanning • Quantitative analysis • Multi-wavelength analysis • Time scan / kinetics • Peak detection and peak analysis • Spectral arithmetic and processing • Automatic data acquisition • Data export in common formats (Excel, CSV, PDF, etc.) 11. Standard Accessories The system shall include: • Standard liquid sample holder for 10 mm cuvettes. • Minimum five (5) quartz cuvettes, 10 mm path length, suitable for UV measurements. • Computer/workstation suitable for instrument control and data analysis. • All required interface cables and connectors. • Licensed operating and data-analysis software. 12. Future Expandability The proposed instrument shall support future integration (without replacement or modification of the core instrument) of accessories including: • Integrating sphere for diffuse reflectance measurements. • Powder sample holder. • Thin-film/solid sample holder. • Temperature-controlled cell holder. • Automatic sample changer. The supplier shall confirm compatibility of the proposed instrument with these accessories. 14. Warranty • Minimum two (2) years comprehensive warranty covering parts, labor, and technical support.