

Purchase Order

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

| Supplier : | ALVTECHNOLOGIES PHILIPPINES INCORPORATED | | P.O. No. : | GIAE-PO-2025-02-0148 (CED) | |
|---|--|---|--------------------------------------|----------------------------|---------------|
| Address : | | | Date : | February 28, 2025 | |
| TIN : | | | Mode of Procurement : | Public Bidding | |
| Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein: | | | | | |
| Place of Delivery : CED Building | | | Delivery Term : 90-120 calendar days | | |
| Date of Delivery : | | | Payment Term : | | |
| Stock/ Property No. | Unit | Particulars | Quantity | Unit Cost | Amount |
| | lot | Supply, Delivery, Installation and Commissioning of one (1) lot Raman Microscope System Product Information: XploRA Multiline Confocal Raman Microscope with 3 Lasers, Motorized XYZ stage New XploRA Plus V1.2 Å MULTILINE Confocal Raman microscope (#Class 3B laser product if CDRH option is not selected) Includes as follows: (1) Research grade optical microscope - Olympus BX, complete microscope with 2 position motorised white light illuminator including 5 Mpix CMOS video camera - PC controlled Koehler Illumination by reflection (LED eqv 100W) / transmission (Halogen 30W) with lamp housings, Abbe condenser, and 3 objectives: - 5x (NA = 0.1, WD=19mm) - 10x (NA=0.25, WD 10.6mm) - 100x (NA=0.9 WD=0.21) (2) XploRA Plus, Raman Base following: - Integrated Imaging spectrometer with 4 gratings mounted on motorised turret for full resolution, range and coverage (gratings: 600gr, 1200gr, 1800, 2400gr) - HORIBA Scientific CCD detector, TE air cooled, 1024x256 pixel, low noise full range CCD chip format for sensitivity and range - Motorised PC controlled 6 position ND filterwheel for laser power adjustment (0.1%, 1%, 10%, 25%, 50%, 100%) (software extendable to 10 positions) - Motorised PC controlled confocal pinhole (for confocal and macro sampling) - Motorised PC controlled entrance slit for resolution selection - Confocal coupling optics and motorised filter selection (PC controlled) | 1 | 22,119,953.00 | 22,119,953.00 |

MA. WILSON A. R. E. LORAMIA
Date: 3/7

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| | | <p>(3) Computer and Spectroscopic software suite LabSPEC6 spectral software suite for the easy acquisition and analysis of Raman data. Includes control of the hardware and acquisition parameters, AUTOcalibration, customizable methods, FLAT fluorescence substraction, Peak label and fit, Image capture, smoothing, spectral subtraction etc.</p> <p>1+6 extended license package (1 license for system control; 6 license for processing including one license on system computer)</p> <p>Dell Optiplex 7000 Computer, with Win 10 64bit/ Windows 10 Pro, with flat screen monitor, mouse and keyboard, I7 processor, 16 GB RAM, 256 GB SSD + 1 TB SATA HD (minimum)</p> <p>LabSpec 6 package for instrument control, data acquisition, analysis and display. x1 (one) license for instrument control and data acquisition - Control of spectrometer, detectors, sampe stages and other accessories - Full data acquisition modes including video, spectrum and maps - NavMap™ (Navigation Map) to navigate easily through your sample</p> <p>X6 (six) licens for standard LabSpec 6 data processing version (1 license is installed on system computer) - data processing funtions including baseline correction, math, and smoothing/filtering - data analysis functions including peak fitting, map characterization and CLS multivariate fitting - display functions for spectra, images and 3D volumes - compatibility with optional LabSpec 6 plug-in modules (available for purchase) including "LS6-PF ParticleFinder", "LS6-MVA Multivariate Analysis" and "LS6-MW MultiWell (modules are OPTIONAL, if interested we will issue a proposal)</p> <p>(4) Standard PRO - Patented Raman Calibration Objectives with sample reference (NIST traceable),</p> | | | |

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| | | <p>offers simple and reliable focus-free calibration - uniquely enables the sample to remain in position under the microscope during system calibration. Includes replaceable polystyrene reference material which is, certificate and documents included (material validation for 12 months)</p> <p>(5) Automated XYZ stage Full kit for sample positioning. Includes XY motorised stage (X=75mm, Y=50mm) and motorised Z device for BX and BXXM microscopes controlled by LabSpec software.</p> <p>XY specifications: repeatability $\leq 1\mu\text{m}$; accuracy $\pm 1\mu\text{m}$; resolution encoder 50nm (minimum step: 10nm, encoder disabled) Z specifications: resolution (minimum step size) = $0.01\mu\text{m}$ Includes positioning joystick, external controller, software package and Raman AutoFocus capability. Includes the Standard SWIFT fast confocal imaging - SWIFT FAST Confocal Raman Image generation module. Innovative high speed Raman acquisition mode suited for fast mapping application.</p> <p>VRM calibration tool is now included.</p> <p>(6) Mapping and Depth Profile AUTOFOC-M-Optical Autofocus device for motorized Z device Opto mechanical attachment and detection system for controlling the focus at the surface of the sample with accuracy and high speed. Ideal for automated mapping analysis of rough sample surfaces.</p> <p>Ability to track surface with $1\mu\text{m}$ resolution (depending to the objective)</p> <p>(7) 3 internal lasers included: - 532 nm laser kit including air cooled solid laser (532 nm/100 mW)., Edge and Bandpass filters set at 532 nm for measurements from 60 cm^{-1} and PL measures up to CCD limit.</p> | | | |

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| | | <p>- 638 nm laser kit including air cooled solid state laser (638 nm/30 mW). Edge and Bandpass filters set at 638 nm for measurements from 50 cm⁻¹ and PL measures up to CCD limit.</p> <p>- 785 nm laser kit including air cooled laser diode (785 nm/100 mW). Edge and Bandpass filters set at 785 nm for measurements from 50cm⁻¹</p> <p>Note: NIR optimized objectives can be selected to ensure better signal collection efficiency.</p> <p>Switching of lasers is fully computer controlled.</p> <p>System specification: spectral resolution</p> <p>- with 532nm wavelength ≤1.4 cm⁻¹ with 2400 grooves/mm average measured between 2300-3200 cm⁻¹</p> <p>- with 638nm wavelength ≤1.2 cm⁻¹ with 2400 grooves/mm average measured 800cm⁻¹-1600cm⁻¹</p> <p>- with 785nm wavelength ≤1.2 cm⁻¹ with 1800 grooves/mm average measured 1000-1600cm⁻¹</p> <p>confocal resolution: ≤500nm lateral XY (with 532 nm) and test sample</p> <p>(8) Additional objective: 50X LW visible objective, NA=0.50, WD=10.6 mm</p> <p>(9) Additional objective: 60X vis objectives, NA=1, WD=2 mm, water immersion (no cover glass correction)</p> <p>(10) IL-TR-μL-BX Innovative LED Based microstructured light for transmission illumination, Compact micro-structured illumination controlled by LabSpec6 (intensity, colors, structure), allowing brightfield (for objectives below 50x magnification), polarized, anomal phase contract. Rheinberg illumination (optical coloring), 3D topography and combination of those within 1 click.</p> <p>(11) Spectral Searching and Database Software Spectral identification solution for single and composite spectra Integration with PArticleFinder for particle by particle identification</p> | | | |

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| | | IDFinder application for LabSpec6 including HORIBA Library and ST Japan Starter Library Permanent use of: - IDFinder app for LabSpec6 - HORIBA Library (>1,700 spectra) - ST Japan Starter Library (10,000 spectra) (12) Additional Software Package: NavSharp Module - Navigate Sharply module for LabSpec6, with live AutoFocus x1 (one) license. ViewSharp Module - AutoFocus at any points module for the live video or LabSpec 6x1 (one) license. (13) Tools Kit, QC certification and electronic manuals (14) 2 laser goggles (LG1 and LG4) and PM160T Laser power meter (15) KEBOS UPS GH11 3kVA (for Raman system) and SECURE AVR SC 1000W (for Computer system) (16) Epson EcoTank L14150 Printer and Epson EB-FH52 Full HD 3LCD Projector included (17) Installation and Training by our ALV service engineer. After sales services and support from ALVTechnologies Philippines Incorporated. (18) Includes Applications Training in factory at Horiba Scientific Applications Laboratory in France for 1-2 persons (19) Decommissioning and Recommissioning for relocating the temporary laboratory (old CED building) to renovated laboratory (Old Pharma building) Includes shipping, customs, duties and taxes, 12% VAT, Installation and Training by our Engineer. After Sales Service Support by ALVTechnologies Philippines Inc. | | | |


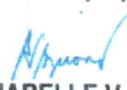

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| | lot | <p>Warranty: XploRA Plus offered 3 years warranty except for the laser sources (internal or external) and the detector (CCD or EmCCD) which have 1 year warranty. Annual Preventive Maintenance for 3 years.</p> <p><i>Optical Table Top and Pneumatic Support of Tie Bars + Center pt</i></p> <p>Pneumatic Optical Table Model: DVIO-I-1508M-300t-800H Consisting of the following: Optical Table Top Model: DVIO-B-1508M-300t Dimensions: 1500 x 800mm Thickness: 300 mm Weight: 198 kg Core: Steel honeycomb core structure, 0.25 mm thick foil Core Cell Size: 2.9 cm² Core Shear Modulus: 19339 kgf/cm² (275,000 psi) Surface Flatness: ± 0.03 mm over 600 x 600 mm area Top Skin: 4.0 mm thick 430 series ferromagnetic stainless steel Bottom Skin: 4.5 mm thick steel Side walls: 2.0 mm thick steel plate with highly damped composite wood Mounting Holes: M6-1.0 Mounting Hole Grid: 25 mm grid Mounting Hole Borders: 37.5 mm Mounting Holes Sealing: 21 mm deep clean cylindrical cap Damping: Broadband damping</p> <p>Performance Specifications Natural Frequency: 200 Hz Compliance: 85 n m/N Natural frequency and compliance are measured on 2000 x 1200 x 300 mm *Natural frequency and compliance vary with dimensions of optical table tops.</p> <p>PNEUMATIC SUPPORT (TIE-BAR TYPE) Model: DVIO-S-1515I-500h Support Height: 500 mm Isolation System: Pneumatic isolation Maximum load capacity: 500-100 kg Automatic releveing: Yes</p> | 1 | 922,806.00 | 922,806.00 |

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| | | Height adjustment range: ± 20 mm Casters 4 ea Material: Steel Performance Specifications Resonant frequency: Vertical/Horizontal = 1.2 - 3.0 Hz Vibration isolation at 10 Hz: Vertical/Horizontal = 80 - 99% Accuracy of leveling repeatability: ± 1.0 mm Includes installation, after sales, service and support from ALVTechnologies Philippines Incorporated, with certification from Manufacturer as authorized distributor to provide after sales. Decommissioning and Recommissioning for relocating the temporary laboratory (old CED building) to renovated laboratory (Old Pharma Building) Warranty: 3 years warranty for Optical table | | | |
| | | | | | 23,042,759.00 |
| | | | Less: VAT | 1,028,694.60 | |
| | | | EWT | 205,738.92 | 1,234,433.52 |
| | | | TOTAL: | | 21,808,325.48 |
| (Total Amount in Words) : Twenty One Million Eight Hundred Eight Thousand Three Hundred Twenty Five Pesos and 48/100 only | | | | | |
| In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Conforme: | | | | | |
|  Signature over Printed Name of Supplier RECEIVED 13 MAR 2025 Date | | | Very truly yours,  DR. ANNABELLE V. BRIONES Signature over Printed Name of Authorized Official Director Designation | | |
| DOST-213: VIP VRV Project 3: Characterization of Vector-Borne Viruses Using Raman Spectroscopy for Clinical Application for the Virology and Vaccine Fund Cluster : Institute of the Philippines (VBVRS) - Year 1 Funds Available : | | | ORS/BURS No. : <u>FFC020250301009</u> Date of the ORS/BURS: <u>03/04/25</u> Amount : <u>23,042,759.00</u> | | |
|  PATRICIA ASHLEY M. MENDOZA Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit Accountant IV | | | | | |