

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

22 316 TF

Supplier : OMNIBUS BIO-MEDICAL SYSTEMS, INC. 4F WILSON CORPORATE CTR, 225, WILSON ST. GREENHILLS, SAN JUAN CITY	P.O. No. : GIAE-PO-2022-05-0295 Date : May 02, 2022 Mode of Procurement : PB
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:	

Place of Delivery : Metrology Building Date of Delivery :	Delivery Term : 120 cd Payment Term :
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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	unit	Olympus Confocal Laser Scanning Microscope Model: FV3000, Origin: Japan Main Features: Confocal point scanning system. Include a laser that produces a continuous spectral output between the wavelengths of atleast 405nm to 785nm using NIR laser diodes; up to 8 independent laser lines can be selected and used simultaneously or that can cover these wavelengths. Equipped with a system that allows extreme flexibility in terms of being able to add new main lasers with additional sub lasers (pg. 21- 23)or adapt to new emission bands A set of fluorescence lifetime-based imaging tools that allows removal of unwanted fluorescence signals and separation of fluorescent species based on lifetime information or any other methodology to obtain separation of fluorochrome signals to avoid overlapping using Spectral Unmixing and TruSpectral Detectionwherein 4 detectors are used for simultaneous live spectral unmixing. Include a galvanometric scanner that is switchable between resonant and non-resonant mode. -Equipped with detectors that deliver a photon detection efficiency of 57% with the most commonly used fluorophores using the updated High Sensitive Cooled GaAsP PMT(10.2021 series). Dichroics: Enable visible light illumination using FV31-LETDfor conventional transmitted light Nomarski Detection and photomultiplier detector. Programmable and freely tunable for white laser light using the indicated 8 independent laser lines as provided. Better as the lasers also does not require constant tuning/calibration of lasers and lessens strain to end-users. Allow users to switch between laser lines that are spectrally close. Laser Facilitate multiple excitation line combinations. High-powered long lifetime Diode lasers suitable for photostimulation experiments should cover the range of 405 to 785 nm and up to 8 single laser lines can be simultaneously used and selected. Freely tunable in steps of at least 1 nm 8 single laser lines even when using fixed laser lines as provided in the earlier statement. Include additional laser diode with wavelength of 405 (±3) nm for fluorescence imaging with dyes such as DAPI or Hoechst. With eight (8) laser diodes which are fully tunable spectral detection based on their spectral range. Silicon-based technology with detector range of a wider range of 400 nm up to 900nm.		27,000,000.00	27,000,000.00

EMAILED

Recipient: _____
 Date: 05-18-22 Time: _____

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22. 3M TF

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		<p>High-powered long lifetime Diode lasers suitable for photostimulation experiments with at least two tunable time gates using Fixed Diode lasers with independent lines provided in the earlier statements.</p> <p>With a mean photon arrival time and lifetime based component separation using long-lasting diode lasers and multi-channel mode which facilitates separating complex fluorescence during acquisition.</p> <p>Microscope stand Inverted microscope with motorized nosepiece with Peltier cooling system of its detectors.</p> <p>With better 8 positions for dichroic filter cube and motorized shutter.</p> <p>With a Smart Control Panel with LCD to display parameters -Feature brightfield light source as well as interference contrast OCT).</p> <p>With motorized long working distance condenser has the polarizer IX-LWPO.</p> <p>With a laser safety equipment as shown by IEC 608251;2007 and JEC 60825-1;2014 Standards.</p> <p>With universal mounting frame capable of fixing different cultivation vessels such as petri dishes up to even 90mm in diameter (H229XR Sample holder) and glass slides or big wafers up to 150 mm in length (H146 sample slider); with at least two moveable brackets as shown in the illustrations with variable clamping ranges.</p> <p>With three filter cubes such as FITC Longpass (pg. 8 Filter Brochure), RHOD longpass.</p> <p>Stage and objectives: With motorized scanning stage with laser-based autofocus, fast and precise motorized stage control.</p> <p>Microscope objectives with two apochromatic objectives (10x/O.40 and 20x/O.75) as well as three (3) apochromat oil immersion objectives (40x/1.30, 60x/1.42 NA which has bigger image resolution and higher 100x/1.45 NA. The X Line ULX (AP060XO and ULX (AP0100XO objective is engineered with an NA of 1.42 while improving image flatness and increasing the chromatic correction range to 400—1000 nm, bigger than the required 410-850nm. This is just one example of the improved chromatic accuracy, brightness, resolution, and image flatness that X Line objectives delivers.</p> <p>Transmitted light and incubator: Transmitted light contain LED brightfield illumination with through-the-lens (TTL) shutter.</p> <p>Include an incubator chamber (i.e. stage top incubator or similar) with one full set of Air/CO2 mixer, temperature controller, and objective heater.</p> <p>Microscope table: With an actively damped optical table that could minimize vibration. Dimensions: 900 x 1200mm will be supplied</p>			

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		Include an ultra-quiet portable air compressor with the following specifications: maximal air pressure of 7.0 kg/cm ³ and for 220V only. Acquisition and analysis software: Software for confocal systems with hardware control, and acquisition, processing, quantification and easy export of data using cellsens software. Imaging tools must be capable of: Instant access to average arrival time and intensity information using Time-Lapse imaging Differentiation between desired and unwanted fluorescence signal. Separation of fluorophores using spectral unmixing up to 16 channels lifetime-based information thru separation of complex fluorescence signals by defining characteristic spectral emission profiles for each fluorophore, enabling accurate spectral unmixing of complex overlapping fluorescent signals. Preservation of temporal resolution while maintaining an optimal signal-to-noise using TruSpectral Detection System. Added modules are also preferred such as: 3D data reconstruction and processing Expert settings for freely configurable Online dye separation during image acquisition Preconfigured library with all common probe substrates for multi well- and multi chamber experiments using well navigator and multi-channel imaging. Image analysis software capable of performing the following: 2D/3D imaging Time-lapse 3D fluorescence and electron microscopy Machine learning using AI deep learning in the form of 2D/3D pixel and object classification, deep learning, and virtual reality. Galvanometric scanner: Must be switchable between resonant and non resonant mode			

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		<p>Resonant mode must be equipped with: Feedback monitoring of the scanner for constant image quality. Actively Peltier cooled scanner.</p> <p>Line frequency of at least 100 Hz up to 500,000 Hz(kHz)(bidirectional)can be setup using the cellsens software showing full field of view at 30 fps and up to 438 fps at 512 x 32 using hybrid scanner and froml fps at 512 x 512, and up to 16 fps with bi-directional scanning and 2x zoom using galvo scan unit. Frames of at least 30 frames/second to 438 fps at 512 x 512; better and faster at 438 frames/ sec at 512 x32.</p> <p>Non-resonant mode must be equipped with: Adjustable speed ranging from at least 1 -8000 Hz in steps of 1Hz; Frames of better 16 frames/second at 512 x 512; at least 438 frames/second at 512 x32.</p> <p>Accessories: Workstation Intel Xeon Gold 6244 Processor; 8cores At least 96 GB working memory NVIDIA Quadro RTX 5000 graphics card with 16 GB memory and 3072 CUDA cores, or equivalent 256 GB SSD for operating system; at least 2 TB SSD for temporary storage of data; at least 6 TB HDD for storage of data. Microsoft Windows10 2 Thunderbolt ports(TB3) 37 inches high brilliance monitor keyboard Mouse and mouse pad computer table (width: 1400 to 1500 mm; depth: 900 to 1000 mm; height: 700 to 800 mm) with storage rack for microscope electronics and accessories.</p> <p>Consumables: Microtiter 96-well plates clear, U bottom, at least 330 uL well capacity, polystyrene material, sterile, 50pcs -Black, flat bottom, at least 400 uL well capacity, polystyrene material, 50pcs -White, flat bottom, at least 400 uL well capacity, polystyrene material, 50pcs -Petri dishes 90 mm, single vented, sterile, 500pcs 90 mm, nonvented, sterile, 500pcs 55 mm, triple vented, aseptic, with numbered grids on the base, deep skirted base, 300pcs. Uninterruptible power supply (UPS) with automatic voltage regulator (AVR); 10 kVA, 60Hz</p>			


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		<p>Warranty: Three(3) years for parts and service from date of installation and annual preventive maintenance during the 3-year period. Laser repair and replacement is inclusive of the 3year period. Recurring Cost and Maintenance Costs will only take effect after the 3 years warranty</p> <p>Availability of parts: Guaranteed at 5 years upon discontinuation of model</p> <p>Room inspection and instrument testing: Includes ocular inspection of the room where the instrument will be placed prior bidding; includes performance testing of the instrument prior shipping to the Philippines</p> <p>Training and Installation: With on-site installation by a trained service engineer and three (3) days intensive hands-on training by a product specialist after installation and commissioning of the instrument; includes free installation</p>			
END USER:		 IVAN JOHN CASTRO		Less: VAT EWT	1,205,357.14 241,071.43 1,446,428.57 25,553,571.43

(Total Amount in Words) Twenty five million five hundred fifty three thousand five hundred seventy one pesos and 43/100 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 Edwin Balasabas Date 5-18-2022	Very truly yours,  ANNABELLE V. BRIONES, PhD Signature over Printed Name of Authorized Official Director Designation
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Fund Cluster : <u>Trust Fund</u> *VIP PROJECT4: De Novo Synthesis of Non-infective Zika Pseudovirus as Reference for Diagnostics and Vaccines Development	ORS/BURS No. : <u>IFCO - 2022050840</u>
Funds Available : <u>₱ 27,000,000.00</u>  PATRICIA ASHLEY M. MENDOZA Accountant II Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit	Date of the ORS/BURS: _____ Amount : <u>₱ 27,000,000.00</u>

5-10-22