

PURCHASE ORDER
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier : Address : TIN :		RAINPHIL INC. 2F Lot 2 Blk 27 Arellano Cor Olivares St. Palanan, Makati City		P.O. No. : Date : Mode of Procurement : Public Bidding		GIAE-PO-2023-11-1470 (EBD) November 28, 2023	
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:							
Place of Delivery : Date of Delivery :		EBD Building Delivery Term : 120 calendar days Payment Term :					
Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount		
	unit	Supply, Delivery, Installation and Commissioning of One (1) unit UPHLC-MALDI-TOF (Ultra Performance Liquid Chromatography - Matrix Assisted Laser Desorption Ionization - Time of Flight)	1	47,000,000.00	47,000,000.00		
	unit	Description: Waters MALDI-TOF	1				
	unit	SYNAPT XS HDMS 8k	1				
	unit	ACQUITY Premier BSM/FTN	1				
	unit	ACQ Premier Col Hlr Active 1 Col (CH-A)	1				
	unit	Dry Vacuum Pump	1				
	unit	MassLynx Performance Workstation with TL	1				
	unit	Nitrogen Generator, Genius XE35, 230V	1				
	unit	SYNAPT XS 2, 5kHz MALDI Option	1				
	unit	HD Imaging Software	1				
	unit	EZ info	1				
	set	Vials and Accessories stated in the Bid Docs	1				
		Product Specifications: ACQUITY PREMIER WITH BINARY SOLVENT MANAGEMENT FEATURES Total System bandwidth: ≤ 12 μL, default configuration Dwell volume (total system): ≤ 115 μL, default configuration Gradient delay volume: ≤ 90 μL Integrated leak management: Leak sensors, as standard, and safe leak handling System synchronization: ^{ok} Injection synchronization between both pumps and the sample manager enhances retention time reproducibility Operating flow rate range: 0.001 to 2.000 mL/ min, in 0.001 mL increments (firmware version 1.71 and later) Maximum operating pressure: 15,000 psi up to 1.0 mL/ min. 9000 psi up to 2.0 mL/min pH range: 2 to 10 Unattended operation: Leak sensors, full 96-hour diagnostic data display through console software Cycle time: ≤ 30 s inject-to-inject					

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		<p>BINARY SOLVENT MANAGER (BSM) Number of solvents: Up to four, in combination of two, A1 or A2 and B1 or B2 Solvent conditioning: Five vacuum degasser chambers, one allocated for injector purge solvent Gradient formation: High pressure mixing, binary gradient Gradient profiles: 11 gradient curves (including linear, step [2], concave [4], and convex [4]) Primary check valves: Intelligent Intake Valves (I² Valve) Flow accuracy: ±1.0% of set flow rate at 0.500 mL/min as per Empower™SystemQ™ Flow precision: ≤ 0.075% RSD or 0.01 min SD (0.2 to 2.0 mL/min), whichever is greater using premixed solvent</p> <p>Synapt G2 XS MALDI-TOF <i>Performance Specifications:</i> The SYNAPT XS HDMS System can operate in two modes: ToF and Ion Mobility ToF ToF resolution positive ion: 75,000 FWHM measured on (M + 6H) of bovine insulin (m/z 956) ToF resolution negative ion: 75,000 FWHM measured on (M - 5H) of bovine insulin (m/z 1147) Mass range: V Mode 20-64,000 m/z W Mode 20-32,000 m/z Positive ion MS sensitivity: The peak at m/z 556 from a solution of 50 pg/μL leucine enkephalin in 50/50 acetonitrile/water +0.1% formic acid, infused at a flow rate of 5 μL/min, will have an intensity of greater than 31,200 counts per second, with the instrument tuned for 12,500 resolution (as demonstrated on bovine insulin) Target enhancement mode: The peak at m/z 556 from a solution of 10 pg/μL leucine enkephalin, infused at a flow rate of 5 μL/min, will have intensity greater than 19,500 ions per second, with the instrument tuned for</p>					

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		25,000 resolution (as demonstrated on bovine insulin) Positive ion MS/MS sensitivity: Using a [Glu1]-Fibrinopeptide B solution of 100 fmol/ μ Lm, at a flow rate of 5 μ L/min and with the instrument tuned 12,500 resolution, the intensity of the most intense y sequence ion from the MS/MS spectrum of the doubly charged precursor ion (m/z 785.8) will be greater than 2,400 counts per second. The instrument m/z range will be set to 2,000 Negative ion MS sensitivity: The at m/z 554 from a solution of 50 pg/ μ L leucine enkephalin in 50/50 acetonitrile/water +0.1% formic acid, infused at a flow rate of 5 μ L/min, will have an intensity of greater than 20,580 counts per second, with instrument tuned for 12, 500 resolution (as demonstrated on bovine insulin) Negative ion MS/MS sensitivity: Using a solution of 500 pg/ μ L raffinose in 70/30 acetonitrile/water, at a flow rate of 5 μ L/min and with the instrument tuned to 12,500 resolution, the intensity of the fragment ion at m/z 179.1 in the MS/MS spectrum of the precursor ion at m/z 503.2 will be greater than 2,400 counts per second. The instrument m/z range will be set to 1,200 Dynamic range: High Resolution Mode is at least 4 orders of magnitude when measuring the m/z 556.2 peak from leucine enkephalin Acquisition rate: Up to 30 scans per second (mode of dependant) High mass precursor selection: The intensity of the largest fragment ion will be less than 5% of the intensity of the precursor ion m/z 5569.1 in 2 μ g/mL solution of Sodium Iodide over mass range 100-8,000 m/z Mass scale calibration accuracy: <1 ppm with internal Lock Mass correction in High Resolution Mode Mass measurement accuracy: <1 ppm measured in High Resolution Mode using Lock Mass correction			



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		HARDWARE SPECIFICATIONS API sources and ionization modes: High Performance Zspray™ Dual-orthogonal API sources includes: - Multi-mode source - ESI/APCI/ESCI (dedicated APCI requires an additional probe) - APCI - NanoFlow™ESI - ASAP ion probe - APGC ion probe - IonKey/MS™ - Tool free source exchange - Vacuum isolation valve - Plug and play probes - De-cluttering cone gas Warranty: 5 years warranty on parts and services with PM			47,000,000.00
			Less: VAT	2,098,214.29	
			EWT	419,642.86	2,517,857.14
		Total			44,482,142.86

(Total Amount in Words) Forty-Four Million Four Hundred Eighty-Two Thousand One Hundred Forty-Two Pesos and 86/100 Only

Conforme:

Signature over Printed Name of Supplier
 Date

Very truly yours,
 Signature over Printed Name of Authorized Official
 Director
 Designation

Fund Cluster: VIP Project 1: Isolation and Purification of Philippine Common Viruses with Medical Importance and Pandemic Potential for Antigen-Antibody Studies

Funds Available:

Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit

Signature over Printed Name of Authorized Official
 Director
 Designation

ORS/BURS No.: IF07023123403
Date of the ORS/BURS:
Amount: 47,000,000.00