

Purchase Order
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Appendix 61

23-976 R

Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIAE-PO-2023-09-0958 (EBD)
Address: Unit 493/494 CityLand Pasong Tamo Tower 2210 Don Chino Roces Ave. Makati City	Date:	September 05, 2023
TIN: 047-000-124-898	Mode of Procurement: PB	

Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: ENVIRONMENT AND BIOTECHNOLOGICAL DIVISION	Delivery Term: 120 CD
Date of Delivery:	Payment Term:

Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
1	lot	<p>SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF ONE (1) UNIT ULTRA - HIGH PERFORMANCE LIQUID CHROMATOGRAPHY - PHOTODIODE ARRAY DETECTOR</p> <p>SHIMADZU ULTRA HIGH PERFORMANCE LIQUID CHROMATOGRAPHY</p> <p>Nexera XS inert</p> <p>Excellent resistance to corrosion with the inertness of surfaces in contact with the sample and mobile phases. The system provides excellent chromatographic separation performances for a wide range of applications.</p> <p>Unconstrained Recovery and Sensitivity</p> <p>Reduces sample loss due to adsorption to metal and achieves excellent sensitivity</p> <p>Clear Resolution without Restrictions</p> <p>Improves peak shape and achieves excellent chromatographic separation</p> <p>Assured Reliability and Reproducibility</p> <p>Reliable data for metal-adsorbing compounds with high reproducibility.</p> <p>Auto-Diagnostics for Trapped Bubbles</p> <p>assesses these distinctive pressure fluctuations caused by trapped bubbles to distinguish them from any expected changes in pressure.</p> <p>Mobile Phase Levels Measured in Real Time</p> <p>Reservoir tray weight sensors can be used to monitor the volume of the mobile phase or autosampler rinse solution in up to twelve containers. The containers can also be checked remotely from a smart device.</p>			5,188,000.00
2 Units		<p>SHIMADZU SOLVENT DELIVERY UNIT</p> <p>MODEL: LC-40D XSi</p> <p>Pumping method Parallel-type double plunger (approx. 10 µL/1 stroke)</p> <p>Allowable maximum pressure 105 MPa</p> <p>Flow rate settings range 0.0001 to 3.0000 mL/min (1.0 to 105 Mpa) / 3.0001 to 5.0000 mL/min (1.0 to 80 Mpa) / 5.0001 to 10.0000 mL/min (1.0 to 22 Mpa)</p> <p>Flow rate accuracy ≤ ± 1% (1 mL/min, 80 Mpa)</p> <p>Flow rate precision ≤ 0.06% RSD or 0.02 minSD</p> <p>Gradient range of set concentrations 0 to 100% (0.1% step)</p> <p>Gradient concentration accuracy High-pressure GE: ± 0.5% (2-liquid gradient of water/caffeine solution, 1 mL/min, 80 MPa) / Low-pressure GE: ± 0.5% (2-liquid gradient of water/caffeine solution, 1 mL/min, 10 MPa)</p> <p>Wetted materials titanium, titanium alloys, nickel alloys, PEEK, ruby, sapphire, Hastelloy® C, high molecular weight polyethylene</p> <p>Available pH range 1 to 14</p> <p>Automatic rinsing kit Standard equipment</p> <p>Operating temperature range 4 to 35°C</p> <p>Power supply AC 220 V, 150 VA, 50/60 Hz</p>			

M. Alar

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Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIAE-PO-2023-09-0958 (EBD)
Address: Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Rocas Ave. Makati City	Date:	September 05, 2023
TIN: 047-000-124-898	Mode of Procurement: PB	

Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:

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Date of Delivery:	Payment Term:

Stock/Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
1	1 Unit	SHIMADZU ON-LINE DEGASSER MODEL: DGU-405 Number of degassed solvents Wetted materials Degassed flow line capacity Dimensions (mm), weight Operating temperature range Power supply	5	PEEK, PTFE 400 µL/1 line W 260 × D 500 × H 72, 4 kg 4 to 35°C Supplied from solvent delivery unit	
	1 Unit	SHIMADZU Photodiode Array Detector Model SPD-M40 "Advanced TC-Optics" function adjusts the temperature of the flow cell, lamp, and optical system to lessen the impact of external temperature changes. Light source Number of diode elements Wavelength range Wavelength accuracy Wavelength reproducibility Bandwidth Spectral resolution Drift Noise Linearity Flow cell Sampling Rate Cell temperature control range Available pH range		Deuterium (D2) lamp, tungsten lamp 1024 190 to 800 nm ± 1 nm ± 0.1 nm 1.2 nm, 8 nm ± 1.4 nm ≤ 0.4 × 10 ⁻³ of AU/h ≤ 6.0 × 10 ⁻⁶ AU 2.5 AU Optical path length: 10 mm, Cell volume: 8 µL, Pressure: 8 MPa Material of wetted parts: PEEK, PFA, quartz Max. 100 Hz (Single wavelength mode) 19 to 50°C, 1°C Step 1 to 13	
	1 Unit	SHIMADZU COLUMN OVEN MODEL: CTO-40C Temperature control type Temperature control range Temperature accuracy Temperature precision Containable column size and Number		Forced air circulation Room temperature - 10°C to 100°C ± 0.5°C ± 0.05°C Up to 250 mm L. column × 6 or 300 mm L. column × 3	
	1 Unit	SHIMADZU AUTOSAMPLER MODEL: SIL-40XSI Dry Air Flow Control The sample rack serves the role of controlling the flow of cooling air inside the autosampler. Even if the sample rack is pulled out, ingress of external air is prevented to inhibit the formation of condensation inside the autosampler or any sharp increases in sample temperature. Injection method Allowable maximum pressure Injection volume Injection volume accuracy Linearity Injection cycle time Samples for processing Injection volume reproducibility Carryover Dip rinsing outside the needle and injection port rinsing Pumping rinse outside the needle Internal rinsing (3 dil) Sample cooler Sample cooler temperature setting range Sample cooler temperature Accuracy Wetted material Available pH range		Total volume Injection 105 MPa 0.3 to 50 µL ± 1% (5 µL injection, n = 20) ≤ 0.9999 ≤ 6.7 seconds 162 (1.5 mL sample vial, 54 × 3 plates) RSD ≤ 1.0% (0.5 to 0.9 µL), RSD ≤ 0.5% (1.0 to 1.9 µL), RSD ≤ 0.25% (2.0 to 4.9 µL), RSD ≤ 0.15% (More than 5.0 µL) ≤ 0.0015% (without rinse) ≤ 0.0003% (with rinse, typically) Standard equipment Standard equipment Standard equipment Standard equipment (Air-circulation temperature control type) 4 to 45°C (Room temperature needs to be less than 30°C and humidity needs to be less than 70% to set 4°C) ± 2 °C (sensor position ± 0.5 °C) Sample transfer path: PEEK, DLC, ceramics Other flow path: PEEK, ceramics, PTFE, ETFE, FEP, GFP, supphire, PPS, FFKM 1 to 14	

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Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.:	GIAE-PO-2023-09-0958 (TSD)
Address: Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Roces Ave. Makati City	Date:	September 05, 2023
TIN: 047-000-124-693	Mode of Procurement: PB	

Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery: ENVIRONMENT AND BIOTECHNOLOGICAL DIVISION	Delivery Term: 120 CD
Date of Delivery:	Payment Term:

Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
1	1 Set	<p>SHIMADZU LC WORKSTATION LabSolutions™ Chromatography Software</p> <ul style="list-style-type: none"> Extract the Smallest of Shoulder Peaks The i-PeakFinder tool can automatically recognize peaks even in complex chromatograms with high noise, and accounts for baseline drift for higher integration accuracy. The i-PDeA II function can quantify peaks that cannot be completely separated by a column. Separate peaks by simply specifying the time and wavelength in LabSolutions. Consistent Peak Splitting Manually setting the baseline for fused peaks is time-consuming, and the peaks may be split differently depending on the user. Dynamic Range Extension Function for Accurate Calibration i-DReC is a new analytical method that significantly extends the dynamic range. It enables the analysis of high-concentration compounds without diluting them, and ensures a correct calibration curve. 			
	1 set	<p>Shim-pack Bio HIC : Hydrophobic Interaction Chromatography (Antibody Drug Conjugates) Shim-pack Bio HIC Column is a hydrophobic interaction chromatography (HIC) column packed with butyl bonded Hydrophilic nonporous polymer particles (4 μm). HIC is suitable for the separation of analytes with slightly different hydrophobicity, such as antibody-drug conjugate (ADC) with different drug-antibody ratios (DAR). Shim-pack Bio HIC can be used for the analysis of DAR of ADC with relatively low pressure and high resolution. Shim-pack Bio HIC Column 4.6x100 mm x 4 μm With guard column</p>			
	1 set	<p>Shim-pack Arata LC Column (Antibodies, Antibody Drug Conjugates/Peptide digests) Shim-pack Arata that was specifically designed to give unmatched peak shape for basic compounds. Shim-pack Arata C18 (3.0 x 75 mm, 2.2 μm) With guard column</p>			
	1 set	<p>Shim-pack Bio Diol (Antibodies, Antibody Drug Conjugates/Aggregates and Fragments) Shim-pack Bio Diol LC columns are effective for analysis of aggregates and fragments of mAb, oligonucleotides and carbohydrates. Particle: Silica, Ligand: Dihydroxypropyl(Diol), Molecular Weight Range: 20,000 - 1,000,000 Shim-pack Bio Diol-300, 5um, 4.6x300mm With guard column</p>			
		<p>Operational Accessories Included:</p> <ul style="list-style-type: none"> 1 Unit Shimadzu System Controller Used to coordinate actions of the overall system, this controller offers intuitive operation that minimizes the stress involved in operating the system, from startup to shutdown. 1 Unit Reservoir tray 1 set Complete PC System (Desktop), O/S: Microsoft Windows 10 professional perpetual, Hard Disk Drive:1Tb, Monitor:21.5" LED Color monitor, Processor: i5, 16G RAM Computer accessories which include but not limited to wired mouse, wired keyboard, UPS and AVR suitable with the computer 1set Continuous Ink printer (color/black) 1 set 2019 MS office 1 set Getting Started kit Pre-column Filter 0.2um, 1PK Shim-pack Velox C18 1.8μm 2.1x100mm (1.5-2.0ml) Labtotal vial, 100/pk Nonsterile Nylon Syringe Filters, Pore:0.22(μm), Housing Diameter:25(mm), 100/pk Membrane Filter (Nylon, 47mm, 0.45μm), 200pcs/pk Sample Syringe Solvent safety Bottle Caps Kit 1 set Mobile phase bottle (1 liter, 4 pcs) 			

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Supplier :	INSTRUMIX SUPPLIER, INC.	P.O. No. :	GIAE-PO-2023-09-0958 (EBD)
Address :	Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Roces Ave. Makati City	Date :	September 05, 2023
TIN :	047-000-124-893	Mode of Procurement : PB	

Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:


Place of Delivery : ENVIRONMENT AND BIOTECHNOLOGICAL DIVISION	Delivery Term : 120 CD
Date of Delivery :	Payment Term :

Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
	1 set	low-adsorption glass vial with cap (100pcs)			
	1 set	Low adsorption polypropylene 96-well plate Hole, Shallow, U Bottom (Round Bottom), Well Capacity: 500 µL, Quantity: 10 Sheets			
	1 set	Vacuum Filtration system, includes pump			
	1 set	10 kVA Uninterruptible Power Supply (UPS) integrated with AVR			
	1 set	10 kVA AVR			
Delivery		: 120 calendar days upon issuance of approved Purchase Order			
Equipment Warranty		: 3 years warranty on parts and services of the Ultra-High Performance Liquid Chromatography – Photodiode Array Detector system from date of installation annual preventive maintenance included in the warranty for 3 years maintenance kits included during preventive maintenance			
Availability of spare parts		: Certificate of Availability of parts Ter (10) years after commissioning			
Installation		: installation by a certified field service engineer			
On-site Training		: Operational training: training on operation, data analysis, troubleshooting with the certified application chemist			
					5,188,000.00
					Less: VAT
					231,607.14
					EWT
					46,321.43
					TOTAL:
					4,910,071.43
END USER:		ATHENA DANA V. CORTES-CHAVEZ			

(Total Amount in Words): Four Million Nine Hundred Ten Thousand Seventy One Pesos & 44/100

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:	Very truly yours,
 Signature over Printed Name of Supplier Donald Rivera Date: September 27, 2023	 DR. ANNABELLE V. BRIONES Signature over Printed Name of Authorized Official Director Designation P 9/11

Fund Cluster : VIP PROJECT 4	ORS/BURS No. : ITCU-2023092372
Funds Available :	Date of the ORS/BURS:
 PATRICIA ASHLEY M. MENDOZA Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit Accountant II	Amount : P 5,188 m.-