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Purchase Order
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Appendix 61

Supplier : INSTRUMIX SUPPLIER, INC.	P.O. No. :	GIAE-PO-2023-06-0602 (STD)
Address : Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Roces Ave. Makati City	Date :	June 16, 2023
TIN :	Mode of Procurement : PB	

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

Place of Delivery : STANDARDS AND TESTING DIVISION	Delivery Term : 90 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 (PDA, FLUORESCNCE, RID WITH POST-DERIVATIZATION UNIT)</p> <p>Features *With automated support functions utilizing digital technology, such as Analytical Intelligence (AI), that enable higher productivity and maximum reliability. *Supports the acquisition of high quality, reproducible data for both routine and demanding applications. Auto-diagnostic and recovery: *Equipped with auto-diagnostic for trapped bubbles and recovery *has the ability to monitor baseline changes and pressure fluctuations to check for abnormalities. *When it detects an unusual fluctuation, it can automatically pause the analysis, purge the flow path, and restart analysis once it has confirmed recovery to normal pressure. Flow Control *Equipped with smart flow control that automatically increase the flow rate gradually to the set point without creating start-up protocols Package: complete with the following components: binary or quaternary pumps, autosampler, column oven, instrument controller</p>	1		7,280,000.00
2	unit	<p>SHIMADZU Solvent Delivery Unit, Model LC-40D XS with LPGE Mixer</p> <p>Pumping method: Parallel-type double plunger (approx. 10 µl/1 stroke) Allowable maximum pressure: 105 MPa Flow rate settings range: 0.0001-3.0000 mL/min (1.0-105 MPa) 3.0001-5.0000 mL/min (1.0-80 MPa) 5.0001-10.0000 ml/min (1.0-22 MPa) Flow rate accuracy: ≤±1% Flow rate precision: ≤ 0.06% RSD Gradient mode: Quaternary low-pressure gradient Gradient range of set concentrations: 0 to 100% (0.1% step) Gradient concentration accuracy: ±0.5% Wetted Material: SUS316L, Hastelloy C, PEEK, PE, Sapphire, Ruby Available pH range: 1 to 14 Automatic risking kit: Available Dimensions (mm): W 260 x D 500 x H 140 Weight: 12kg Operating temperature range: 4 to 35°C Power supply: AC 100-240 V, 50/60 Hz, 150VA Operating humidity range: 20%-80%</p>	3		
3	unit	<p>SHIMADZU ON-LINE DEGASSER MODEL: DGU-40S</p> <p>*Equipped with 5 flow lines *Has an internal capacity of 400 µl per flow line *Can continuously remove dissolved gases from liquid through a degassing membrane</p>	2		

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4	unit	<p>SHIMADZU SPECTROFLUOROMETRIC DETECTOR Model: RF-20AXS Light source: Xenon lamp Low-pressure mercury lamp Wavelength range: 200 to 750 nm Spectral bandwidth :20 nm Wavelength accuracy: ±2 nm Wavelength precision: ±0.2 nm S/N: Water Raman peak S/N = 2000 :Low background S/N = 12000 Range of cell temperature control Cell: Room temperature -10°C to 40°C, 1°C step : Standard conventional cell: volume 12 ul, maximum pressure 2 MPa Sampling rate: Max. 100 Hz (Single wavelength mode) Function: Simultaneous measurement of four wavelengths, Wavelength Scanning Dimensions [mm], weight: W 260 x D 500 x H 210, 18 kg Operating temperature range: 4 to 35°C Power supply: AC 100-240 V, 400 VA, 50/60 Hz</p>	1		
5	unit	<p>SHIMADZU COLUMN OVEN MODEL: CTO-40C Temperature control type: Forced air circulation Temperature control range: Room temperature -10°C to 100°C Temperature accuracy: ±0.5°C Temperature precision: ±0.05°C Containable column size and number: Up to 250 mm L. column x6 or 300 mm L. column x 3 Dimensions [mm], weight: W 260 x D 500 x H 415, 21 kg Operating temperature range: 4 to 35°C Power supply: AC 220-240 V (Automatic switching), 400 VA, 50/60 Hz Operating humidity range: 20%-80%</p>	1		
6	unit	<p>SHIMADZU AUTOSAMPLER MODEL: SIL-40C XS Injection method: Total-volume injection Allowable maximum pressure: 105 MPa Injection volume: 0.1 to 50 µL Injection volume accuracy: 1% (5 µl injection, n = 20) Linearity: ≥20.9999 Injection cycle time: 6.7 seconds Samples for processing: 162 (1.5 ml sample vial, 54 x 3 plates) Injection volume reproducibility: 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), RSD 0.5% (typically, 0.5 µL), RSD 0.25% (typically, 1.0µL) ul Carryover: 0.0015% (without rinse) 0.0003 % (with rinse, typically) Dip rinsing outside the needle and injection port rinsing: available Pumping rinse outside the needle: available Sample cooler: available Sample cooler temperature setting range: 4 to 45°C Sample cooler temperature accuracy: ±2°C Wetted material: SUS316L, DLC, PEEK, GFP, PTFE, FEP, ETFE, sapphire, ceramics, PPS, FFKM Available pH range: 1 to 14 <i>W 360 x D 500 x H 210</i> Dimensions [mm], weight: <i>W 260 x 500 x 280</i> 24kg Operating temperature range: 4 to 35°C Power Supply: AC 100-240 V, 400 VA, 50/60 Hz Operating humidity range: 20%-80%</p>	1		

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Address:	Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Rocas Ave. Makati City	Date:	June 16, 2023
TIN:	Mode of Procurement: PB		

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Date of Delivery:
Delivery Term: 90 CD
Payment Term:

Stock/Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
7	unit	<p>SHIMADZU PHOTODIODE ARRAY DETECTOR Model SPD-M40A</p> <p>Light source: Deuterium (D2) lamp Tungsten lamp Number of diode elements: 1024 Wavelength range: 190 to 800 nm Wavelength accuracy: ±1 nm Wavelength reproducibility: ±0.1 nm Slit width: 1.2 nm, 8 nm Spectral resolution: ≤ ±1.4 nm</p> <p>Drift: ≤ 0.4 x 10⁻³ of AU/h (under specified conditions) Noise: ≤ 4.5x10⁻⁶ AU (under specified conditions) Linearity: 2.5 AU (under specified conditions) Standard flow cell: Optical path length: 10 mm, Cell volume: 12 ul, Pressure: 12 MPa Cell temperature control range: 19 to 50°C, 1°C Step Available pH range: 1 to 13 Dimensions [mm], weight: W 260 x D 420 x H 140 10 kg Operating temperature range: 4 to 35°C Power supply: AC 100-240 V, 180 VA, 50/60 Hz</p>			
8	unit	<p>SHIMADZU DIFFERENTIAL REFRACTIVE INDEX DETECTOR MODEL RID-20A</p> <p>Measurement range: 1 to 1.75 RIU Noise: ≤ 2.5 * 10⁻⁹ RIU Drift: ≤ 1x10⁻⁷ RIU/h Range: A mode: 0.01 x 10⁻⁶ to 500 x 10⁻⁶ RIU P, L-mode: 1 x 10⁻⁶ to 5000 x 10⁻⁶ RIU Response: 0.05 to 10 sec, 10 steps</p> <p>Polarity Change: Available Zero adjustment: Auto zero, Optical zero, Fine zero Maximum flow rate: 20 mL/min Range of cell temperature control: 30 to 60°C Cell: Volume 9 µl, Maximum pressure 2 MPa Sampling rate: Max. 50 Hz Dimensions (mm), weight: W 260 x D 420 x 140, 12 kg Operating temperature range: 4 to 35°C Power supply: AC 100-240 V, 150 VA, 50/60 Hz</p>	1		
9	set	<p>SHIMADZU LC WORKSTATION LabSolutions Chromatography Software</p> <p>*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 ensure calibration curve.</p>			

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Supplier: INSTRUMIX SUPPLIER, INC.	P.O. No.: GIAE-PO-2023-06-0602 (STD)
Address: UNIT 434/435 UYLAND PASONG TAMA TOWER 2220 UYU UNO ROSES AVE. MARIKINA CITY	Date: June 16, 2023

Mode of Procurement: PF

Place of Delivery: STANDARDS AND TESTING DIVISION

Stock/Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
10	Set	<p>Operational Accessories Included:</p> <p>1 Unit: Shimadzu System Controller Used to coordinate actions of the overall system, this controller offers intuitive that minimizes the stress involved in operating the system, from startup to shutdown.</p> <p>1 Unit: Reagent tray</p> <p>1 set: Post-column derivatization system</p> <p>1 set: Amino acid kit (Post-column derivatization system, Reagents, Mobile Phase Kit Reagent and Standard)</p> <p>Amino Acid Analysis Tubings Kit</p> <p>Shimadzu Shim-pack AMINO-NA LC column, 5um, 6.0 x 100 mm</p> <p>Shimadzu Shim-pack (R) G0/S0504 U LC Trap Column, Amino Series, 4.0 x 50 mm</p> <p>Mobile phase kit for amino acid analysis (NA Type)</p> <p>Mobile Phase kit for Amino Acid Analysis (U Type)</p> <p>Post-column OPA reagent 248-21195-93 for amino acid analysis</p> <p>1 set 2x Shim-pack Velox C18 2.7um 2.0x100mm</p> <p>2x Shim-pack Velox C18 SXP Guard Column Cartridge 2.7um 2.0x5 mm 3 pk</p> <p>2x Shim-pack GIST C18, 2um, 3.0x150 2x</p> <p>Shim-pack GIST-HP (G) C18, 2um, 3.0x10 with Cartridge (2pcs) and Holder</p> <p>1 set tools for maintenance and troubleshooting</p> <p>1000 pcs HPLC vials (1.5 or 2 ml, amber, with writing area and graduation) with cap, septa (PTFE/silicone), and two pcs vial racks</p> <p>2000 pcs nylon syringe filter (pore: 0.20 um, diameter: 25 mm)</p> <p>100 pcs membrane filter (nylon, 0.2 um) for filtration system</p> <p>20 pcs glass syringe (5 ml, borosilicate glass)</p> <p>8 pcs media bottle for mobile phase (1 L, clear, borosilicate glass)</p> <p>4 pcs media bottle (1 L, amber, borosilicate glass)</p> <p>4 pcs solvent safety bottle caps kit</p> <p>1 set Vacuum Filtration System including pump</p> <p>1 set Deuterium Lamp</p> <p>2 pcs HPLC waste receiving container (approx. 20 L capacity, high-density polyethylene) with capacity 4L</p> <p>1 set Uninterruptible Power Supply (UPS), 10 KVA with 30mins Backup Time</p> <p>1 set AVR, 10 KVA</p> <p>1 set All-in-One PC (Computer Desktop)</p> <p>Operating System: Windows 10 Pro, 17core</p> <p>Monitor: 27"</p> <p>Memory: 16 GB</p> <p>Storage: 2 TB SSD</p> <p>Keyboard: Wired Keyboard English</p> <p>Mouse: Wired</p> <p>1 set Router</p> <p>1 set UPS for the computer</p> <p>1 set AVR for the computer</p> <p>1 set MS Office (Word, Excel, PowerPoint) lifetime license</p> <p>1 set Multi-Function Printer</p> <p>Printing Specification:</p> <p>Print technology: Laser</p> <p>Duplex printing: Manual driver support provided</p> <p>Print resolution (best): up to 1,200 dpi</p> <p>Maximum print area (metric): 216 x 356 mm</p> <p>Monthly duty cycle: Up to 10,000 pages</p> <p>Print languages: SP1</p> <p>Printer smart software features: Manual duplex and booklet print, 7-up printing, skip blank pages, pause print, watermarks</p> <p>Scan</p> <p>Scanner advanced features: Scan to WSD (network support only); Book Scanning; Poster stitching for multiple scan; Text converting: Scan to E-book, Existing file to E-Book</p> <p>Scan technology: Contact Image Sensor (CIS)</p> <p>Scan resolution, hardware: Up to 4800 x 4800 dpi</p>			

20. 6/15/23

Purchase Order
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Appendix 6I

Supplier: INSTRUMIX SUPPLIER, INC. P.O. No.: GIAE-PO-2023-06-0602 (STD)

Address: Unit 433/434 CityLand Pasong Tamo Tower 2210 Don Chino Roces Ave. Makati City Date: June 16, 2023

TIN: Mode of Procurement: PB

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

Place of Delivery: STANDARDS AND TESTING DIVISION Delivery Term: 90 CD

Date of Delivery: Unit Term:

Stock/ Priority No.	Unit	Particulars	Quantity	Unit Cost	Amount
		<p>Levels of grayscale: 256</p> <p>Bit depth: 8-bit (mono) 16-bit (color)</p> <p>Maximum flatbed scan size (metric): 216 x 297 mm</p> <p>Minimum ADF scan size (metric): 145 x 145 mm</p> <p>Maximum ADF scan size (metric): 216 x 356 mm</p> <p>Twain version: Version 1.9</p> <p>Connectivity</p> <p>Ports: Hi-Speed USB 2.0; Fast Ethernet 10/100Base-Tx network port; Wireless 802.11 b/g/n</p> <p>Wireless capability: built-in Wi-Fi 802.11 b / w / n</p> <p>Copy</p> <p>Copier settings: Copies; Original Size; Reduce/Enlarge; Darkness; Original Type; Collation 2-Up; 4-Up; ID Copy; Adjust Background; Auto Fit Copy</p> <p>Maximum number of copies: Up to 99 copies</p> <p>Copy reduce/enlarge settings: 25 to 400%</p> <p>Copy speed (black, normal): Up to 20 cpm</p> <p>Copy resolution: Up to 600 x 600 dpi</p> <p>Paper handling</p> <p>Input capacity: Up to 150 sheets</p> <p>Output capacity: Up to 100 sheets</p> <p>Media sizes supported (metric): A4; A5; A5 (LEF); B5 (JIS); Oficio; Envelope (DL, CS)</p> <p>Media sizes, custom (metric): 76 x 127 to 216 x 356 mm</p> <p>Media types: Plain, Thick, Thin, Cotton, Colour, Preprinted, Recycled, Labels, Cardstock, Bond, Archive, Envelope</p> <p>Media weight supported (metric): 60 to 163 g/m²</p> <p>2 sets Heavy duty extension cord 8 outlets and cable length 5m)</p> <p>1 set Copy of all operating and service manual in English</p> <p>Equipment Warranty: 3 years warranty on parts and services</p> <p><i>on-site Training: Operational Training training on operation, data analysis, troubleshooting of the assigned application of user</i></p> <p><i>Application Training: Training on password testing using UHOLEC up to forensic expert</i></p> <p><i>* Annual preventive maintenance included in warranty of 3 years, maintenance kit included during preventive maintenance. *</i></p>			7,280,000.00
			Less: VAT	325,000.00	
			EWT	65,000.00	390,000.00
			TOTAL:		6,890,000.00

END USER: *[Signature]* AMIAN

[Total Amount in Words]: Six Million Eight Hundred Ninety Thousand Pesos 00/100

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: *[Signature]* Donald Rivera
Signature over Printed Name of Supplier
July 12, 2023

Very truly yours, *[Signature]*
DR. ANNABELLE V. BRIONES
Signature over Printed Name of Authorized Official
Director

Fund Cluster: *TF-1051-183*

VALIDATION AND CATION OF ORIGINAL TEST RESULTS AND PRESERVATION OF SAFETY PARAMETERS AMONG TEST LABORATORIES

Funds Available: *7,280,000*

Signature over Printed Name of Chief: *[Signature]* PATRICIA ASHLEY D. MENDOZA
Signature over Printed Name of Chief of Accounting Division/Unit Accountant II

ORS/BURS No.: *PO02023071572*

Date of the ORS/BURS: *July 10, 2023*

Amount: *7,280,000*