

23. 15/03/23

Purchase Order
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

Supplier :	CAS COLOR APPLICATION SPECIALIST	P.O. No. :	GIAE-PO-2023-04-0390 (EBD)
Address :	UNIT 1213 ENTRATA URBAN COMPLEX CONDOMINIUM 2609 CIVIC DRIVE FILINVESTCITY ALABANG, MUNTINLUPA CITY	Date :	April 28, 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 :	ENVIRONMENT AND BIOTECHNOLOGICAL DIVISION (EBD)	Delivery Term :	120 CD
Date of Delivery :		Payment Term :	

Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
1	unit	<p>AUTOMATED SURFACE PLASMON RESONANCE REFRACTOMETER Brand: CYTIVA Model: BIACORE X100</p> <p>Specifications: Detection Technology: Surface plasmon resonance (SPR) biosensor to determine protein association/dissociation, kinetics and thermodynamics of protein binding. Additional features include: the ability to study biomolecular interactions involving small molecules in an organic solvent, to determine protein concentrations related to a specific binding event, and to vary and control the temperature of different assays Data Presentation Result tables, result plots, and real-time monitoring of sensor grams Working principle: 2-1 detection (automatic reference subtraction) Information provided: Kinetic and affinity data (KD,ka,kd) specificity, selectivity Sample type: LMW drug candidates to high molecular weight proteins in various sample environments (also DNA, RNA, polysaccharides, lipids, cells and viruses)</p> <p>Kinetics: *Multi cycle or single cycle (without the need for regeneration between injections) *Association rate constant (ka): 103 to 107 M-1s-1(for typical protein-protein interactions) *Dissociation rate constant (kd): 10-5 to 0.1 s-1 Dissociation constant (KD): 100 µM to 1 PM Detection limit: Typically 0.1 nM for > Mr 10 000 analytes Typically 1 nM for < Mr 10 000 analytes Molecular weight detection: Down to Mr 100 in various sample environments Analysis time per cycle: Typically, 2 to 15 min Sample capacity per run: 10 to 15 samples Automation: 24 h unattended operation Injection volume: 5 to 90 µL Required sample volume: Injection volume + 20 to 30 µl (application dependent)</p> <p>Immobilized Interactant consumption: Typically 1 µg Concentration analysis: With standard calibration curve or Calibration-free concentration analysis (CFCA) Baseline noise: < 0.1 RU (RMS) Baseline drift: < 0.3RU / min Sample refractive index range: 1.33 to 1.40 In-line buffer degassing: Included Number of flow cells: up to 2 Flow cell dimensions (WxHxL): at least 0.5 * 0.05 x 2.1mm In-line reference subtraction: Automatic Flow rate range: 1 - 100 µl/min Analysis temperature range: 4°C to 40°C (maximum * 10 deg * C below ambient temperature) Sample compartment temperature: Ambient Dimensions (WHD) Instrument: 598 * 563 * 593 mm</p> <p>Mains requirement: Processing unit and system controller: Auto range 100 to 240 VAC, 50 to 60 Hz, protective earthing power consumption Processing unit: Max 4A (at 100 VAC) System Controller: Max 7.2 A (at 100 VAC)</p>	1	24,988,000.00	24,988,000.00

EMAILED

Received: _____
Date: 06-19-23 Time: _____

73. 568 TF

Purchase Order

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

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Stock/Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
		<p>PC operating systems: Windows 7 Professional 64-bit, US English version Windows 10 Professional, 64-bit, US English version</p> <p>Data export: Excel® format result data export, text file raw data export Image export: Clipboard export Safety and EMC Standards: Complies with and applies to Europe and North America (US and Can) Standards</p> <p>Includes: 1. 1unit Widescreen monitor: resolution 1920 x 1080 16:9, 21.5" IPS Micro Edge, LED Brand: HP 2. 1unit PC Desktop with optical USB mouse and keyboard; Brand: HP Operating System Windows 10 Pro 64-bit; Intel Core i5-9500 6C Processor, System Memory: 16GB, Hard Drive: 256 GB PCIe NVMe SSD with DVD-RW with pre-installed Microsoft Office 2021 3. Sensor chip CMS, Package of three. 4. One Maintenance Kit for the processing unit and sensor chip 5. One Amine Coupling Kit Capacity: The kit contains reagents sufficient for approximately 80 immobilizations.</p> <p>Contents: N-Hydroxysuccinimide (NHS), 115 mg; 1-Ethyl-3-(3-dimethylaminopropyl) carbodiimide hydrochloride (EDC), 750 mg; 1 M Ethanolamine hydrochloride-NaOH pH 8.5, 10.5 mL 6. HBS-EP+ Buffer 10X, 4 x 50 mL - (0.1 M HEPES, 1.5 M NaCl, 0.03 M EDTA and 0.5% v/v Surfactant P20) 7. One (1) system Check Kit 8. Consumables: 400 pcs PP plastic vials 1.5 mL (o.d. 11 mm) for use with the unit and 400 pcs rubber caps type 2 9. 1unit Custom Laboratory Countertops fitted for processing unit and PC made of Wood with Phenolic resin top with 3 storage drawers 10. 5 units of Ergonomic Laboratory Chair/Stools. Brand: JMMG 11. 1 unit of Secure UPS, Model: UPS3000VA 12. 1unit Staval Automatic Voltage Regulator, Model: ST-5KVA</p> <p>Warranty: 2 years in provision for PC, AVR and UPS</p> <p><i>Training Warranty: 5 Years general.</i></p>			
			Less: VAT	1,115,535.71	24,988,000.00
			EWT	223,107.14	1,338,642.85
			TOTAL:		23,649,357.15

END USER: **MADALINE L. EBARVIA**

(Total Amount in Words): **Twenty Three Million Six Hundred Forty Nine Thousand Three Hundred Fifty Seven Pesos & 15/100**

<p>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.</p>	
<p>Conforme:</p> <p><i>[Signature]</i> Signature over Printed Name of Supplier KERNAN G. ZAFE Date JUNE 19 2023</p>	<p>Very truly yours,</p> <p><i>[Signature]</i> Signature over Printed Name of Authorized Official DR. ANNABELLE V. BRIONES Director <i>[Signature]</i></p>
<p>Fund Cluster:</p> <p>VIP PROJECT 1</p>	<p>ORS/BURS No.:</p> <p>FFCO 202366 B340</p>
<p>Funds Available:</p> <p><i>[Signature]</i> Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit Accountant II PATRICIA ASHLEY M. MENDOZA Date June 15, 2023</p>	<p>Date of the ORS/BURS:</p> <p>Amount: 24,988,000.00</p>

4/15/23