

PURCHASE ORDER

INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

18-849TF

Supplier: ITS SCIENCE PHILS., INC.		P.O. No.: 2018-11-0600(GIAE)	
Address: #3434-C C. Raymundo Ave., Rosario, Pasig City		Date: November 26, 2018	
TIN: 006-866-279-000		Mode of Procurement: Public Bidding	
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:			
Place of Delivery: Metrology Building (not later than 4:30 pm)		Delivery Term: 90 days	
Date of Delivery:		Payment Term:	

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	lot	GAS CHROMATOGRAPH/CLARUS SQ8T MASS SPECTROMETER (GC/MS) WITH HEADSPACE TRAP SAMPLER A.Perkin Elmer Parts Clarus SQ 8T Mass Spectrometer (120/230V, 50/60Hz Operation) Part Number: N648-0012 Consisting of: • Mass Spectrometer with Electron Ionization (EI) Source • 255L/sec Turbomolecular Pump • Wide range pressure gauge • 2.5 m3hr-1 backing pump • Power Cord • Cable to Clarus 690 GC, RS232, 7-ft length • Shipping kit (Key Items Listed) • Includes materials for installation. • Helium specific (multi-bed) quick connect filter glass • Indicating multi bed gas filter kit with quick connects. • Micro-Mesh® abrasive paper for ion source Mass Spectrometer Specifications Ion Source: Electron Impact (EI) and completely field upgradeable to CI Ion source temp range: settable from 50 to 350°C or wider Transfer line temp range: settable from 50 to 350°C or wider Mass range: 1 to 1,200 amu Detector: Long-life high sensitivity Electron Multiplier Filament: Ceramic Coated Rhenium filament Mass analyzer: Quadrupole with pre-filters Ionization energy: 10 to 100 eV or wider Linear dynamic range: At least 10 ⁶ or higher Vacuum pumps: 255 L/sec or higher, air-cooled turbomolecular pump Vacuum Gauge: Single wide range gauge Pump-down time: < 3 minutes or faster Carrier gas flow rate: 5 mL/min or higher Sensitivity: ≥800:1 EI Full scan (1 pg OFN) or higher ≥10,000:1 CI positive scan (1 pg OFN) or higher ≥1,200:1 CI negative scan (100pg benzophenone) Scan rate: 12,500 amu/sec or faster Data Collection: Full Scan, SIM, and Simultaneous Full Scan and SIM MS Library: NIST Mass Spectral Library Software: User friendly and intuitive	1	5,988,000.00	5,988,000.00

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End User: Dr. Araceli M. Monsada

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		Gas Chromatograph Specifications Gas flow control: Standard with programmable pneumatics - four software configurable modes: programmed flow, programmed pressure, programmed velocity or constant flow. Vacuum compensation software selectable. Also includes complete pneumatic control for detector gases. Oven temp range: -99°C to 450°C or wider Oven cool down rate: < 2 minutes from 450°C to 50°C or faster Oven temp ramp rate: 140°C/min or faster Injector: Split/splitless capillary injector Injector temp range: 50°C to 500°C or wider Injector leak testing: Automatic Clarus SQ 8 MS Controller Part Number: N648-0015 •PC LENOVO •220V,60Hz •Intel Core i5 •8Gb RAM, 1Tb Hard drive •Mouse, keyboard •2nd Network Card-for connection to existing network •TurboMass 6.0 Software 20" Flat Panel Multimedia Monitor(240V) Part Number: 0940-4760 NIST Mass Spectral Library AMDIS Deconvolution, Forensics,Wiley Mass Spectral Library Maurer /Pfleger /Weber Library of Drugs, Poisons, Pollutants, Pesticides, and Metabolites Part Number: N652-0220 Clarus 690 Gas Chromatograph (230V, 50/60 Hz Operation) Part Number : N665-9690 Clarus 690 Gas Chromatograph (230V, 50/60Hz Operation) Part Number: N665-0D00 Clarus 690 GC with PPC & Integral Luliquid Autosampler Part Number: N66500A0 A microprocessor-controlled gas chromatograph with a built-in autosampling system and PPC-capability. Both the GC and autosampler are fully controlled from the instrument's touch screen graphical user interface.	1		
					TOTAL CARRIED FORWARD

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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		Features include: GAS CHROMATOGRAPH Four-level, three-ramp temperature programming to 450°C (oven maximum software controlled). Five method setup, generation, storage and copy. Up to two simultaneous analog outputs for integrator or recorder, switchable to either detector. Digital electronic pressure readouts with capillary injectors. Control of up to six solenoids for split vents and sampling valves. Up to 32-programmable timed events. External computer communications allows full instrument control plus two simultaneous channels of raw data. Battery RAM storage of GC methods, instrument configuration and automation programs. Control of up to 12 PPC modules. AUTOSAMPLER One hundred & eight (108) 2-ml sample positions. Priority sample position. Four (4) 4-ml wash vials, four 4-ml waste vials. Injection into Channel A or Channel B. Programmable vial sequence. Sample size (0-0.5 µL in 0.1 µL steps with a 0.5-µL syringe, 0-5 µL steps with a 5-µL syringe and 0-50 µL steps with a 50-µL syringe) Three injection modes; one to fifteen injections per vial.			
		Capillary Split/Splitless Injector with PPC (FRONT) Part Number: N66510K0	1		
		DotLINK Integral Link for Clarus 580 GC Part Number: N6513010	1		
		Capillary Split/Splitless Injector Starter Kit Part Number: N665-0101 Includes: 2-mm i.d quartz liner, 4-mm i.d quartz liner, silicone o-rings (10), Thermogreen septa (50), 0.5-mm graphite ferrules (10), 0.8-mm graphite ferrules (10), 1/16-inch stainless steel nuts (5), untreated quartz wool, packing rod, wafer scribes (10).	1		
		Gas Supply Installation Kit (copper tubing, connector, fittings, Swagelok nut and ferrule) Part Number: N650-0123	1		
		Autosampler Starter Kit Part Number: N612-0105 Syringe, Crimper, Crimp Vials 1000pcs (Clear & Amber), Septa	1		
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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		1000pcs, Caps Crimp, Vials Septa, Decapper, Holder		TOTAL CARRIED FORWARD	
		Nitrogen MS Manifold Part Number: N647-0045	1		
		Column Alignment Sight Part Number: N648-0380 Optical Alignment Sight for improved inspection of GC column insertion. Will also prevent contamination of manifold if ion source is removed for extended periods.	1		
		Elite-5MS (30m x 0.25mm ID x 0.25um) Part Number: N931-6282	2		
		Quartz Split Liner with Silanized Glass Wool (2.0mm ID x 4.0 mm OD 86.2 mm L) 5/pkg Part Number: N650-2009	1		
		He High Purity Brass Regulator Part Number: 0023-0253	1		
		Filter-Vapor Mist NW25 Filters the exhaust on the roughing pump. Part Number: 0992-3518	1		
		Gas Purification System Part Number: N930-3963 Advanced filter system has a high capacity and efficiency for oxygen, water and hydrocarbons, recommended max flow rate is 2L/min with 200psi maximum operating pressure.	1		
		0.5mm ID, Graphite/Vesphel Ferrule Part Number: 0990-3700	1		
		GCMS Sensitivity Test Mix Part Number: N933-1078	1		
		HP Printer-Scan-Copy Part Number: ITSPH	1		
		GCMS with HS Table (3m x 1m) Part Number: ITSPH	1		
		UPS 10KVA 220VAC 50/60Hz Part Number: ITSPH	1		
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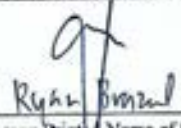
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		Digital Dehumidifier Part Number: ITSPH (digital display, ≥20L/day extraction rate, ~5°C to ~30°C operation, with removal tank, hygostat, variable fan speeds, automatic shut off with bucket full indicator and alarm, auto defrost, automatic shut-off timer, removal air filter, with handle and casters, garden house connector for continuous drainage, 220V, 60Hz, one (1) year warranty	1		
		B.Turbomatrix 40 Headspace Trap Sampler HS Base Unit Part Number: M041-3602	1		
		Turbomatrix 40 HS Trap Sampler Part Number: M041-3428 Automated Headspace sampler with built-in absorbent Trap and standard PerkinElmer 9mL or 20mL sample vials. Up to 40 vials can be loaded into the removable vial magazine for automated analysis. Overlapping Thermostating of up to 12 vials in constant mode for maximum productivity. A Patented optimization algorithm adjusts the virtual oven size for maximum throughput. An optional frequency-scanning shaker is available to reduce equilibration time. No optimization of the shaking process is required.	1		
		Standard Heated Transfer Line Part Number: M041-3531 (1008mm) for operation up to 210°C	1		
		ADAPTOR-RZRBK HEADSPACE INJECTION Part Number: N6552000	1		
		Headspace HS40 Starter Kit Part Number: B050-5601 Consisting of 1000 vials (B010-4236), 2 sets of septa, each with aluminum caps and star springs; 200 PTFE coated butyl rubber septa (B010-4239), 200 PTFE coated silicon rubber septa (B010-4241). Also included are: hand crimper (N930-2785), pressure gauge with needle for vials (B050-1377), two needle seal assemblies (B050-0833), 10 O-rings (B019-8110), book by B.Kolb and L.S.Ettre, s.	1		
		Power Cord Part Number: 0999-1420	1		
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		Carbonpack C TMHS Trap Part Number: N620-0150 Terms & conditions: - The instrument's installation, commissioning and initial operation will be done by our service engineer. - ITS will provide your initial training on use, application and maintenance of the instrument as part of our after sales service. Training coverage includes: Onsite-in-house training with flexible number of participants; includes sample preparation, operation, interpretation of results, Application, Basic Troubleshooting and Preventive Maintenance; Certificate of Training for the trainees. - Includes installation and commissioning certificates of installation qualification, operational qualification and equipment qualification - Upon installation; (1) generation of 5-point calibration curve of the standard working range that will pass the linearity requirements. MS performance specifications will be achieved - The instrument carries a two (2) years warranty on parts against factory defects and two (2) years on services. Date of warranty starts after installation and commissioning or 3 months from date of shipment whichever comes first. - Country of Origin: USA	1		
					TOTAL CARRIED FORWARD
					5,988,000.00
			Less: VAT	267,321.43	
			EWT	53,464.29	320,785.70
					5,667,214.29
					9
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(Total Amount in Words) Five million six hundred sixty seven thousand two hundred fourteen pesos & 29/100. ₱ 5,667,214.29					
Conforme:		Very truly yours,			
 Signature over Printed Name of Supplier 17/12/18 Date		 DR. ANNABELLE V. BRIONES Signature over Printed Name of Authorized Official OIC-ITDI, Deputy Director, R&D Designation			
Fund Cluster : <u>Treasury Fund</u>		ORS/BURS No. : <u>0051-126</u>			
IDAS Project 1: Application of Multivariate Analysis on Methamphetamine HCl Chemical Fingerprints and Kinetic Stability Modelling Funds Available : <u>₱ 5,988,000.00</u>		Date of the ORS/BURS: <u>17th Dec.</u> Amount : <u>₱ 5,988,000.00</u>			
 SOLEDAD S. REYES Signature over Printed Name of Chief Accountant/Head of Accounting Division/Unit					

Jan 27