

**PURCHASE ORDER**  
INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

20-1133 TF

Supplier : <b>ITS SCIENCE (PHILS.) INC.</b>		P.O. No. : <b>GIAE-PO-2023-09-1033 (ADMATEL)</b>			
Address : 3434-C C. Raymundo Ave. Rosario, Pasig City		Date : September 18, 2023			
TIN :		Mode of Procurement : Public Bidding			
Gentlemen: Please furnish this Office the following articles subject to the terms and conditions contained herein:					
Place of Delivery : ADMATEL Building		Delivery Term : 120 calendar days			
Date of Delivery :		Payment Term :			
Stock/Property No.	Unit	Description	Quantity	Unit Cost	Amount
	lot	<b>Supply, Delivery, Installation and Commissioning of One (1) lot TGA with Gas Transfer Line Compatible with Perkin Clarus GC-MS</b>	1		
N5320011		TGA 8000 Analyzer with Autosampler, 100-240 VAC, 50/60 Hz	1	4,640,500.00	4,640,500.00
N5320014		<b>Gas Mixing Device</b> This accessory allows mixing of up to three (3) gases, delivering a custom gas environment to your TGA Sample.	1	62,000.00	62,000.00
N5370221		Poly-science Chiller, 220VAC, 50/60Hz	1	520,000.00	520,000.00
N5340092		Pyrus Standard Software	1	250,000.00	250,000.00
N5370562		Platinum Sample Pan Kit (Pack of 5)	1	45,000.00	45,000.00
N5370464		Ceramic Sample Pan Kit (Pack of 10)	2	40,000.00	80,000.00
N5320120		TGA 8000 Installation Kit	1	415,000.00	415,000.00
ITSPH		<b>Other Local Supplies</b> Branded PC Intel Core i5-12600K 3.7 GHz 10-Core Processor with CPU Cooler, LGA1700 Motherboard, 16GB (2 x 8GB) DDR4-3200 CL16 RAM and 1TB PCIe NVMe M.2 SSD Windows 10 OS with Microsoft office, both with perpetual license Printer: Deskjet with Ink Tank System and scanner, with one set ink refill	1	60,000.00	60,000.00

EMAILED

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ITSPH		Oxygen and Nitrogen Regulator	2	20,000.00	40,000.00
ITSPH		Oxygen and Nitrogen Gas with Cylinder with safety chain	2	30,000.00	60,000.00
ITSPH		6KVA UPS EGA Interface System	1	100,000.00	100,000.00
L8200087		TL 8500e TGA 8000 - GCMS EGA Interface System 230V  The PerkinElmer TG-GCMS Evolved Gas Analysis (EGA) hyphenation interfaces TGA 4000 and STA 6000 with the PerkinElmer Clarus Gas Chromatograph and SQ8 Mass Spectrometer. The system is based on an active balanced flow system with no sample pushing. Stability and linearity are maintained by gas stream filtration and an MFC. The low maintenance interface design enables heating to 350°C and supports both qualitative and quantitative results. The adapter is specifically designed to fit into the TGA 4000 / STA 6000 following the active balanced flow principle. The TGA adapter is designed to maximize results by minimizing potential dead volumes, providing exhaust tube connections and adequate isolation of the furnace from oxygen and moisture.  The TL 8500e system cleanly separates and detects very low flow of molecules from complex mixtures formed in the TGA. The evolved gases	1	3,345,500.00	3,345,500.00

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		<p>generated from the sample analyzed in the TGA furnace are transferred through the interface and the sample is injected into a sampling loop or goes directly to the MS determined by the user (previously defined) method.</p> <p>When sent to the GC where components can be collected in a gas sampling loop, GC column separates the gas mixtures and column generated peaks are detected by the MS. Switching from GC to MS is automatically done through the controller.</p> <p>The evolved gases can be directly sent to the MS detector taking advantage of the selectivity of ions, a feature that enables the selection of a broad range of specific ions from 1 to 1200amu. The system isolates the MS during the opening phases of the TGA furnace. The MS is kept in stand-by mode and is continuously flushed with the chosen carrier gas. The common path design with MS ensures that the instrument is never contaminated by external moisture that would compromise the data. The high temperature Transfer Line prevents condensation and gas deposits throughout path. The system is designed to eliminate cold spots, carry over, and capillary clogging.</p> <p>Main Features: - 24 Volts Heated Gas Transfer lines with easily replaceable inner-liner which can be heated</p>	
			Unit Cost
			Amount

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		<p>up to 350°C.</p> <ul style="list-style-type: none"> <li>- TGA 4000 / STA 6000 adapter for isolation of the furnace from oxygen and moisture.</li> <li>- Double Valve Injection Block on the top of the GC oven can be heated up to 350°C</li> <li>- Unique pre-heated carrier gas system prevents the sample quench inside the injection loop.</li> <li>- Automatic exchange (SW controlled) from TG-MS time base monitoring mode to TG-GCMS separation mode.</li> <li>- TG-MS time base monitoring: the sample gas is introduced into the injection block only during the TGA analysis run (EI source form environment oxygen). The analysis time is selectable, and the segmented sampling mode is also possible.</li> <li>- TG-GCMS separation mode: in order to prevent carry over, the sample gas is introduced in the Injection Block only during the injection sequence (loop wash, loop load, GC column separation).</li> <li>- Controller equipped with mass flow controller EGA system for evolved gasses aspiration, filtration and thermal stabilization (maximum flow rate 200 ml/min) and pump.</li> </ul> <p>7" Touchscreen display</p> <ul style="list-style-type: none"> <li>*Easy MFC re-calibration from control panel</li> <li>*Alert notification displayed on control panel for Immediate diagnostics</li> <li>*Set pump threshold activation &amp; time prior to shutdown</li> </ul>			

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		- Web-server enabled PerkinElmer Business Confidential for Internal Use Only 59 - Easy trigger/relay system between all instruments - Runtime program table to start the GC from the controller - GC real-time analysis - Fast GC capable for very fast separation (Clarus 690 model required for Fast GC) <i>Multiple Injectors enabled for Fast GC Clarus 690 Model requires for that GC</i> The system 230V, 50 Hz operation includes: - Digital Controller and pump - EGA interface - TL 8500e Installation Kit: *PerkinElmer Relay box (P/N N5370060) *Grease-Apiezon L 25g Tube *Gage-Bliz Cap Tube Tool 10mm *Ferrule Set-Clarus MS *Wafer-Ceramic Cutter *Col-Elite 5ms 30m .25mm .25mm - TL 8500e User Guide - Installation	
N6550054		<b>Add-on Programmable Split Splitless w/PPC Kit for Clarus, 5/680</b> Kit includes injector with programmable pneumatic control, heater, sensor, and heater block. The GC must be Programmable Pneumatic Control™ ready.	1
N6120102		Programmable Split Splitless Injector Starter Kit	1
			230,000.00
			85,000.00
			230,000.00
			85,000.00

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03300905		Silanized Glass Wool	1
09903392		Nut-Union Male Extend 1/16 in. Tubing S/S	5
09903700		Graphite Ferrule - 1/16 in. x 0.5 mm Pkg. of 10	1
09920141		Graphite Ferrule - 1/16 in. x 0.8 mm Pkg. of 10	1
N6101539		Liner-9000 SSTPI On Col	1
N6101747		Viton O-Ring Kit - SSTPI Pkg. of 10	1
N6101751		Graphite O-Ring Pkg. of 5	1
N6121004		Liner-9000 SS'TPI 2 mm Quartz	1
N6121006		Liner-9000 SSTPI 1 mm Quartz	1
N6621028		Septa LB2 ThermoGreen 11 mm Pkg. 50	1
N9301358		Fused Silica Tubing Intrmd Plrty 50 m x 0.53 mm	1
N9301376		Wafer-Ceramic Cutter Pkg. of 10	1
N9302149		Universal Connector Pkg. of 10	1
N6120144		<b>Prevent Add on Kit</b> Includes all the necessary parts to add PreVent capability to an existing Programmable Split Splitless injector with PPC or to a capillary injector with Programmable Pneumatic Control. Includes restrictor and mid-poin Programmable	1
			65,000.00
			65,000.00

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		Pneumatic Control Module.  <b>Warranty:</b> The instrument carries a three (3) year warranty on service (Preventive Maintenance of Equipment) and one (1) year guaranteed replacement of parts/consumables. Date of warranty starts after installation and commissioning of 3 months from date of shipment whichever comes first.  <b>Remarks:</b> - Preventive Maintenance is Semi-Annual - Software upgrade (system software) within warranty period - With IQOQ Certificate - Local Support available - Local Application Training (basic operation - hardware, software, and analysis of food samples specifically microplastics)	9,998,000.00  535 607.15 9 462 392.85 <i>sgn</i>
<b>END USER: ANGELENE J. ALCAIN</b>			
<b>Total</b>			

**(Total Amount in Words) Nine Million Six Hundred Forty Thousand Nine Hundred Twenty Eight Pesos and 57/100**

Conforme:

Very truly yours,

*[Signature]*  
 Signature over Printed Name of Supplier  
**DR. ANNABELLE V. BRIONES**  
 Director  
 Designation

**Fund Cluster : Modernization of Microplastics and Heavy Metals Testing in Milkfish using Thermogravimetry-Gas Chromatography/Mass Spectrometry (TG-GC/MS) and X-ray Fluorescence (XRF)**  
 Funds Available :

ORS/BURS No. : *FFCO2023162656*

Date of the ORS/BURS:

Amount : *9,998,600.00*

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

*[Signature]*  
**PATRICIA ASHLEY M. MENDOZA**  
 Chief Accountant/Head of Accounting Division/Unit