Appendix 61 Purchase Order INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE Suppli1er ITS SCIENCE PHILS., INC. PO No GIAE-PO-2023-12-1564 (STD) Address #3434-C C. Raymundo Ave., Rosario, Pasig City Date . December 29, 2023 Mode of Procurement : PB Gentlemer Please furnish this Office the following articles subject to the terms and conditions contained herein: Place of Delivery NATIONAL METROLOGY DIVISION Delivery Term: 90 CD Payment Term Stock/ Unit Particulars Property No Quantity Unit Cost SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING 6,500,000.00 OF ONE (1) UNIT INDUCTIVELY COUPLED PLASMA - OPTICAL **EMISSION SPECTROPHOTOMERTER (ICP-OES)** LOCOPFON Avio** 220 Max ICP-OES , Cyclonic/Concentric 3,856,440.00 3,856,440.00 PerkinElmer's Avio™ 220 Max ICP-OES is a compact, bench-top ICP-OES that combines a vertical plasma design with a host of unique hardware features to handle even the most difficult, high-matrix samples without dilution, delivering a whole new level of performance and flexibility to ICP. These include RF generator with Flat Plate™ plasma technology generates a robust, matrix-tolerant plasma usinghalf the argon of other systems Patented Dual View capability measures every wavelength with no loss of light or sensitivity; Full-wavelength-range CCD array detector measures the wavelength range around the emission line of interestsimultaneously-for superior precision. The smallest ICP on the market, Avio 220 Max offers the most efficient operation, reliable data, and lowest cost of ownership by delivering The lowest argon consumption of any ICP (only 9 L/min versus 21 L/min required by other systems) The fastest ICP startup (spectrometer ready in just 10 minutes from power on) Superior sensitivity and resolution for all elements of interest The widest linear range The widest linear range Plus. Avio 220Mas unprecedented performance comes with unparalleled ease of use. Unique hardware features and Syngistix cross platform atomic spectroscopy software combine to make multi-element measurements as easy as single-element analyses. includes a Glass Cyclonic Spray Chamber, 2mm Injector and Meinhard Concentric Nebulizer Instrument Dimensions 65 x 81 x 76 cm (W x H x D) 65 cm wide (26 in.), 81 cm high (32 in.), and 76cm deep (30 in.) 132 kg (292 pounds), or 146 kg (322 lbs) with the shipping container Power Requirements 200 to 230 V AC ~, 50/60 Hz. Power consumption 2800 VA (maximum) Complete system for the analysis of elements (Al, Ba, Ca, Cd, Cu, Fe, K, Mg. Na. St. Ti) including hydride forming elements (As, Se, Hg, etc.) for drinking water, dialysis water, and complex matrices such as food, soil, salt, plant material and construction materials Capable of quantification from ppb to % concentration range without dilution or concentration Instrument capable dual (simultaneous view sequential radial and axial) analysis in a single run System should be able to read at the visible and UV range together at the same time Built-in 12-roller peristaltic pump: 4 channels with adjustable pump speed (0-35 rpm) Capable of in-line mixing sample solution and internal standard solution N0790131 Quartz Torch 1-Slot Avio 17,045.00 17,045.00 N0791189 Quartz Injector 2.0 mm Avio 8,260.00 8,260 00 N0791352 Baffled Cyclonic Spray Chamber Avio 32,410.00 32.410.00 N0777707 MEINHARD Type K1 Nebulizer 1 mL/Min 27,265.00 27,265.00 N0780546 GemTip Cross Flow Nebulizer 0.00 0.00 N0791183 2.0 mm Alumina Injector 0.00 0.00 N0791499 Scott Spray Chamber 0.00 0.00 N0790606 Scott Torch Module Avio 220Max Kit for High salt or high TDS samples (at least 5% TDS) 79,765.00 79,765 00 It is an excellent general purpose sample introduction system for the analysis of strong mineral acids (including HF) and samples with less than 5% dissolved solids. Includes Gemtip Cross flow nebulizer , Quartz Torch,





2.00mm Quartz Injector, Scott Spray Chamber

Purchase Order INDUSTRIAL TECHNOLOGY DEVELOPMENT INSTITUTE

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Suppli1er:	ITS SCIENCE PHILS., INC.	P.O. No. :	GIAE-PO-2023-12-1564 (STD) December 29, 2023	
ddress:	#3434-C C. Raymundo Ave., Rosario, Pasig City	Date :		
N :		Mode of Procurement :		

entlemen:	Please fun	nish this O	ffice the following arti	cles subject to the terms and conditions contained herein:			The state of the s
ce of Delive	ery :	The second second	NAL METROLOGY D		Delium Torra co co		
e of Deliver	ry :	1			Delivery Term : 90 CD Payment Term :		
Stock/ operty No.	Unit			Particulars	Quantity	Unit Cost	Amount
		1	NOS10433	Hydride Accessory Kit		66,885.00	66,885 00
				Siscone Tubing ID Smm Thickness v 2 mm	The second of the second of		
	ľ			PLC Tube 3N1 TR 25 Shore	80018283		
				FTFE Tubing 110 mm	80048139 80191058		
	,			erre ti bing 100 mm	80191059		
				1.52 mm ID Tubing, Blue/Yellow/Blue, Pkg. 12 Adapter A. D. with Intern Screw Thread 1.8mm	80193161		
				Adapte C D = 4.0	80193342 80196850		
ļ				Adapter E D = 60	80196857		
-				Tubing Connector for FIAS-400MS	80196882		
	ŀ			PTER Tubing 300 mm Tubing Adapter K	80198097		
				Strong Separation Assembly	80507918 80507957		
,	a .			PTFE Membrane, Pkg. 50	80508306		
ŀ				3.18 mm ID. Black, White/Black Pkg. 12	80508310		
				PVC Tubing for 2 mL/mm, P40 Ultrasonic Axial Adapter	N0680375 N0695426		
1				Quick Disconnect Tubing for 2000/4000	N0770336		
- 1		4 500		Grass Bail Join Adapter	N0811235		
,	e.	2	80094032	Narrow Neck Bottle, 500mL for reductant and	acid reagent	1,330.00	2,660.00
		2	00470660	15t Drain Bottle Assembly		17,430.00	34,860.00
-	z.	3	N0780202	ICP Syngistix Software Assembly			
1				Designed to optimize the performance of Avid	* Max ICP-OES	141,330.00	141,330.00
				instruments and improve efficiencies in the la	b. Syngistix for ICP		
,				software mirrors the progression of your work	oflow, guiding users		
				through each step for greater control and con and easy to use, the software offers immediat	fidence. Flexible		
				you're running the instruments, running the li	aboratory or		
				running the business.	addratory, or		
- 1							
		1	N0772046	WhisperCool 1 HP Chiller 208-230 V 60 Hz		274,225	00
1				Analog control of circulating temperature i	n the range of -10 °C	274,225	.00 274,225.00
1				to the transfer of the transfe	1400 W at 20 20		
1				connectors 208 230V, 60 Hz, 12.2 A	n/off and necessary		
		1	NO776200	Chiller Cooler Mix			
		~	N0582152			10,675.	.00 10,675.00
			ACC 205 125	UV Wavelength calibration Solution, 5%H	ICL (500ml/bot)	2,520.	
1	•	2	N9302946	Mr. P. S. 20 mg/L: As, La, Li, Mn, M	o. Na. Ni. Sc		3,040.00
				VIS Wavelength calibration Solution, 2% H	INO3 (250ml/bot)	11,305	00 22,610.00
1		ŭ Ā	N9300236	50 mg/L. K. 10 mg/L: La, Li, Mn, Na, Sr; 1 mg Set of Multi-Element Solutions	g/L: Ba, Ca		
				Consists of :		42,840.00	42,840.00
1	_			1 ea N9300232 Multi-Element Solution 2			
ľ				Multi-Element Solution 2			
				"Openic Co Dy Fo Es. Ga Ho La	125 mt N9300272		
+				su fed Palife Smith th, ten a vb			
				1 ea N9300233 Multi-Element Solution 3 Multi-Element Solution 3	and the state of t	Thing.	
+				The state of the s			
				Ca. Ca. Co. Cr. Cs. Cr. 4a. Ga	125 mL N930023	3	
				Hg", In, K. Li, Mg, Mn, Na, Mr.			
				Po Rb. Se, Sr. Ti, U, V. Zn			
				1 ea N9300234 Multi-Element Solution 4	The second control of	-	
				Multi-Element Solution 4			
				HO HO HO TO AG MIL AU, HIT IS PG, PS, RE, HO SO, SY, Te	125 mL N930023	4	
ľ				1 ea N9300235 Multi-Element Solution 5			
	.1						
ľ				10 pg ort B; Ge, Mo, Mo, P, Re, S, St. 1	25 mi N930023S		
1		7	N0770396	Installation Solutions Kit			
1		10	09908587			44,520.00	44,520.00
1	-		Anna Anna Anna Anna Anna Anna Anna Anna	Standard peristaltic pump tubing resistant to black.	most mineral acids,	1.120.00	11,200.00
-	-	10	05908585	Standard PVC for drain, red			Constitution and St. Delications
	- 1					1,120.00	11 200 00
		1	NO815325	Compact Air Filter Assembly	4	4,420.00	11,200.00

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uppli1er:			HILS., INC.		P.O. No. :	GIAE-PO-2023-12-1564 (STD)		
Idress :	#3434-C (C. Raymundo Ave., Rosario, Pasig City			Date :	D	ecember 29, 2023	
ntlemen:		***************************************			Mode of Procurement :	РВ		
	Please furni	sh this Office	e the following article	s subject to the terms and conditions contained herein:				
ice of Delive		NATIONA	L METROLOGY DIV	ISION	Delivery Term : 90 CD			
Stock/					Payment Term :			
roperty No.	Unit	1	N0830015	Particulars 523 Autosampler	Quantity	Unit Cost 317,135.00	Amount	
				chemically resistant and agile autosampto improve sample throughput and savis \$23 autosamplers in this platform are file forkintliner software, ensuring seamle communication between the various hat these versatile autosamplers feature the Proprietary crash detection who being caused to the autosample contact with a capped sample this reduces the turnover and ensures that your autosampler contact with a capped sample to the contact without having autosampler. LED status lighting, which provide autosampler state e.g. standby ensures easy mitigation and diagno. The S20 Series Autosampler So preset specific parameters such as autosampler peristaltic pump specifigurations allowing a choice of depths thereby limiting the amounther espective software's, and allo their sampling needs. S20 Software open in the background, thereby file.	e on analysis time. ally integrated in estable ardware components, are following: to the prevents damage from the probability of the probability			
	 Variable speed 3-ch 1 serial 9RS232) por 1 USB (virtual com p 5 auxiliary inputs ar 100 - 240VAC 				g up to 270 samples p autosampler			
		1	NO237547	523 Autosampler Enclosure		133,945.00	133,945.00	
		1		Carbon Probe, 0 Smm ID (Blue)		15.365.00	15,365.00	
		1	80193234 N0777167	50ml Conical Stand 28x115mm w/Cap		9,625.00	9,625.00	
	+	2		Sample Tubes, 15 mt Round 17mm x1		4,270.00	4,270.00	
			N0830028	2) Position Rack 3x7/28 mm Tube OD		1,785.00	3,570.00	
		1	N0830026 ITSPH	60 Position Sample Back (For 15 mt Ti		1,190.00	4,760.00	
	·	*	нэгп	Lenovo Windows 11 Complete PC systems 1 Deskjet Ink Printer Processor: Core i5 Latest Generation Operating System: Windows 11 Home with the instrument software)		80,000.00	80,000.00	
				-RAM: 8 GB or better, ROM: 2 TB SSD				
				-Graphics Card: at least 1GB dedicate	d graphics card			
				includes MS Office (Word, Excel, Pow license and with at least one (1) software	year licensed anti-virus			
				 -computer accessories including wire router, 750VA UPS and 750VA AVR an hard drive with USB cable (for back-u 	d a 2 TB portable external			
		1	ITS	Silent type Air Compressor 2HP and re	gulator	60,000.00	60,000.00	
		1	175	Accu-power 10 KVA Capacity Uninterrong 220 V that can provide 30 minutes bact 50/60Hz with conversion from 3 phase With 5m wired extension with 6 outlets	upted power supply (UPS) kup, 200 – 240VAC, s to single phase output. s	180,000.00	180,000.00	
	-	1	ITS	10KVA Automatic Voltage Regulator (A		80,000.00	80,000.00	
		2	ITS	Argon gas with cylinders (99.5 - 99.996		30,000.00	60,000.00	
		1	ITS	Nitrogen gas with Cylinder with 2 refill Gas lines for Argon, Nitrogen and Air (6 stainless steel; % inch with a thickness installation)	50m) made of SS316	0.00 500,000.00	0.00 500,000.00	



200,000.00

50,000.00

200,000:00

25,000.00

175

Exhaust system for the ICP-OES

Argon and Nitrogen regulators with in-line filters