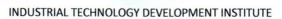
Supplier :	INSTRU	INSTRUMIX SUPPLIER, INC.		GAAE-PO-202-01-0002 (STD)		
Address :			Date :	January 16, 2025		
TIN:			Mode of Pro	e of Procurement : Public Bidding		
Gentlemen: Plea	ase furnish th	is Office the following articles subject to the terms and conditions	contained herei	n:		
Place of Deliver		STD Building	Delivery Terr Payment Ter	m : 90 calendar days		
Stock/ Propert No.		Particulars	Quantity	Unit Cost	Amount	
	lot	Supply, Delivery, Installation and Commissioning of one (1) lot Graphite Furnace and Flame Atomic Absorption Spectrophotometer (with Accessories)  Shimadzu Atomic Absorption Spectrophotometer	1	6,188,000.00	6,188,000.00	
		Model: AA-7800 Optics				
·		Wavelength range: 185.0 to 900.0 nm  Monochromator: Aberration-corrected Czerny-Turner mounting, Number of grating grooves: 1800 lines/				
n a t		mm, Focal length: 300 mm Bandwidth: 0.1, 0.2, 0.4, 0.7, 1.0, 2.0L nm				
		(6-step automatic switching)  Detector: Photomultiplier tube  Optics: Optical double-beam				
		Furnace: High-throughput single beam Background correction method: BGC-SR (high-speed self-reversal method) (185.0 to 900.0 nm)				
_		BGC-D2 (D2 lamp method) (185.0 to 430.0 nm) Number of HC lamps: 8 lamps		* :		
		2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement) Lamp mode: EMISSION, NON-BGC, BGC-D2, BGC-SR				
		Data Processing Software requirements: Microsoft Windows (64bit)				
		Parameter setting: Wizard method Measurement mode: Flame continous method, flame micro sampling method, furnace method, flame emission method				
		Concentration conversion mode: Calibration curve method (order: 1st, 2nd, 3rd) Standard addition method, simple standard addition				
		method (order: 1st) Repeat analysis: Up to 20 repetitions. Mean value, standard deviation (SD) and coefficient of variation (RSD) display Automatic exclusion of deviant values by setting SD and %RSD				
-		Baseline correction: Automatic correction of baseline drift by offset correction in peak height/ peak area modes.				

Supplier :	INSTRU	MIX SUPPLIER, INC.	P.O. No. :	T GAAE-PO-202	2-01-0002 (STD)
Address :			Date :	Januar	y 16, 2025
TIN:			Mode of Pro	curement : Public Bid	lding
Gentlemen:					
Pleas	e furnish thi	s Office the following articles subject to the terms and conditions	s contained here	in:	
Place of Delivery	<b>'</b> :	STD Building	Delivery Ter	rm : 90 calendar days	
Date of Delivery	:	-	Payment Te		
Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
		Signal processing segment setting: Signal processing segments can be changed in peak height / peak area modes.  Sensitivity correction: Automatic calibration curve correction function using sensitivity monitoring. Analog output: 2 channels (atomic absorption/energy signal, background Output range: 5.0, 2.5, 1.25, 0.625 Abs./V (each settable in 4 stages) Fixed at 1 V F.S. in EMISSION mode Tabular data processing: Final concentration calculations based on sampled volume, dilution rate, fixed volume, and factor inputs Recall of parameters: Template functions available Procedure/result display: MRT (Measurement Results Table) worksheet Report generation: Summary report QA/QC: Select whether to continue or discontinue Measurements based on results of evaluation on coefficient of correlation, %RSD, ICV.ICB, CCV, CCB, PB, LCS, SPK, PDS, and DUP Re-analysis: Prescriptive and intelligent dilution options. Automatic dilution and re-analysis of unknown samples via autosampler (flame micro sampling method, furnace method) Digital recording: Management by login ID and password Control user access authority by user level - Log record - Audit trail - Electronic signatures  FLAME Burner Unit Type: Air-cooled pre-mix type Burner head: Titanium 10 cm slot Nebulizer: Pt-Ir capillary PTFE orifice Ceramic impact bead (capable of handling hydrofluoric acid) Chamber: Engineering plastics Positioning: AA-7800F Lateral/vertical manual adjustment AA-7800F/AAC Automatic flame/furnace switching by motor Automatic search of optimum burner height			

Supplier : INSTRUMIX S	·			GAAE-PO-202-01-0002 (STD)		
Address :		Date :		y 16, 2025		
TIN:		Mode of Pr	ocurement : Public Bio	dding		
Gentlemen: Please furnish this Office	e the following articles subject to the terms and condit	tions contained here	ein:			
Date of Delivery :	Building	Delivery Te Payment T	erm : 90 calendar days erm :	·		
I I Unit I	Particulars	Quantity	Unit Cost	Amount		
Ang Type  GAS Flov Setti Man Auto Safe flam Ace Auto incre Flar Prev Gas Drai Auto sudd Inter  FUF Hea Hea cont func Ash via o Sett Hea Inne High Enri Opti func Inne Safe Gas Ove circu	le adjustment: 0 to 90° e: Air-C2H2 flame, N2O-C2H2 flame  S CONTROL or rate control: Automatic fuel gas flow rate ing (0.1 L/min step) mual support gas flow rate setting omatic search of optimum gas flow rate ety measures: Automatic flame extinction via ne vibration sensor tylene regulator failure sensor omatic gas leak check omatic Air-N2O switching as C2H2 flow rate eases ne monitor vention of incorrect burner head use repressure monitor in tank level monitor omatic flame extinction upon power outage or den power interruption rnal fan stop sensor  RNACE ting temperature range: Ambient to 3,000°C ting control system: Drying: Digital current trol with automatic temperature calibration stion ing, Atomization: Digital temperature control optical sensor ing heating conditions: Maximum 20 stages ting mode: RAMP/STEP er gas type: Dual automatic switching type n-sensitivity mode setting chment in furnace: Maximum 20 times imum temperature program search support	Quantity	Unit Cost	Amount		

Supplier :	INSTRUM	MIX SUPPLIER, INC.	P.O. No. :	GAAE-PO-202-01-0002 (STD			
Address :			Date :	January 16, 2025			
TIN:			Mode of Pro	ocurement : Public Bid	lding		
Gentlemen: Pleas	se furnish this	s Office the following articles subject to the terms and conditions	contained here	in:			
Place of Delivery Date of Delivery	:	STD Building		Delivery Term : 90 calendar days Payment Term :			
Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount		
		Automatic flame/furnace switching by motor Power requirements: 220VAC±5%, 7400 VA, 50/60 Hz Dimensions and weight: 230 W x 560 D x 507 H mm, 50 kg  One Autosampler for Both Flame and Furnace Control: RS-232C communication control from AA unit Maximum reagent/sample positions: Reagents: 8 positions Samples: 60 positions (random access available with reagents or samples) Rinse water bottle: 2 L Power requirements: Choose from 220VAC, 50 VA, 50/60Hz  FLAME CONTINUOUS METHOD Functions: Zero-point detection, auto diagnosis, auto rinse, random access Sample volume: Sample vials: 15 mL, reagent vials: 53 mL Nozzle rinse: Solvent rinse aspiration method  FURNACE METHOD Functions: Zero-point detection, auto diagnosis, auto rinse, auto mixing, random access Sample volume: Sample vials: 2 mL, reagent vials: 20 mL Nozzle rinse: Solvent rinse discharge method Sampling functions: Dilution function, reagent addition function Syringe: 250 uL Injection volume: 2 to 90 uL Repeatability: 1%RSD (20uL) Carryover: Rinse port: Less than 0.0001 Mixing port: Less than 0.00001 Mixing port rinse: Solvent rinse discharge method, solvent discharge and rinse with next sample Mixing function: Performed in mixing port. Maximum mixture Volume: 0.6 mL Maximum number of mixing reagents added: Up to 4 solutions Number of solutions possible for mixing Calibration curve method: 5 solutions max. (sample + 4 types of reagents)					

Supplier :	INSTRUMIX SUPPLIER, INC.		P.O. No. :	GAAE-PO-202-01-0002 (STD)		
Address :	1		Date :	January 16, 2025		
TIN:			Mode of Pro	ocurement : Public Bide		
Gentlemen:	se furnish th	is Office the following articles subject to the terms and conditions	contained here	in:		
		•				
Place of Delivery Date of Delivery	•	STD Building	Delivery Te Payment Te	rm : 90 calendar days		
Stock/ Property	,	Particular:				
No.	Unit	Particulars	Quantity	Unit Cost	Amount	
		Standard addition method: 6 solutions max.			-	
		(sample + standard solution + 4 types of reagents)				
		Auto dilution / re-analysis: For measurement result				
	1	on unknown samples:				
		If extrapolation of calibration curve is possible:				
		automatic calculation of dilution rate and dilution to				
	1	bring concentration within calibration curve range  If extrapolation of calibration curve is not possible:				
		dilution rate fixed at 10x				
		didion rate fixed at 10x	-			
		Camera unit				
		Imaging Device: CMOS sensor (color)				
		No. of output pixels: 640 x 480 (VGA)				
		320 x 240 (QVGA)				
		Exposure/Gain/White Balance: Automatic adjustment				
		Transmission Rate: 30 frames/sec (VGA)				
		Interface: USB 2.0 (direct connection to PC)		l		
		Screen Resolution: XGA (1024 x 768 dots) min.		[		
		I/O Port: One USB 2.0 port				
	1	OPERATIONAL ACCESSORIES INCLUDED:				
	set	Complete PC system, i5 core with Windows 11 Pro	1			
		(OS: compatible with equipment software), RAM: 8 GB, 1 TB SSD, 24 inches monitor				
	set	Multi-functional wireless printer	1			
	SEL	Printer with colored printing, scanning, and copying,	1 '			
		includes automatic document feeder				
	set	Includes MS Office (Word, Excel, Powerpoint)	1	1		
		lifetime license, compatible with equipment				
		software				
	set	Computer accessories which include but not limited	1	1		
		to mouse, keyboard, UPS/AVR				
	set	TB portable external hard drive with USB cable	1			
		(for back-up of data)		1		
	set	Argon stainless steel gas line (30-35 m) with 2	1			
		gas regulators				
	set	1 Argon gas tank with 2 refills (Ultra High Purity	1	1		
		grade)				
	set	Acetylene stainless steel gas line (30-35 m) with 2	1			
		gas regulators	4	1		
	set	1 Acetylene gas tank with 4 refills (Ultra High Purity grade)	1			
	set	Silent Type oil-less air compressor	1			
	set	Dual stage air filter for the gas lines of argon	1	1		
		and acetylene				



Supplier :	INSTRUMIX SUPPLIER, INC.	P.O. No. :	→ GAAE-PO-202-01-0002 (STD)
Address :		Date :	January 16, 2025
TIN:		Mode of Pro	curement : Public Bidding

200 of D-1		CTD Building	In a		
Place of Delivery : STD Building Date of Delivery :			Delivery Term : 90 calendar days Payment Term :		
ock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount
	set	Exhaust system (Exhaust fan, Canopy hood,	1		
1		Ducting, Chimney)		1	
	set	Cooling Water Circulator	1 1		
1	set	High-density graphite tube, 10pcs	1	I	
1	set	Pyrolytic graphite tube, 10pcs	1	ĺ	
	set	15ml Autosampler vials for AAS, 500pcs	1	- 1	
	set	50ml Autosampler vials for AAS, 500pcs	1	1	
	set	Deuterium Lamp	1	1	
	set	6 KVA UPS with 30mins back-up and 6 KVA AVR	1 1		
1		(220 V, wattage depending the equipment, with		I	
1		2-3 outlets, has visual indications, metal casing)		- 1	
	set	Includes supply and installation of circuit breaker	1 1		
		and other needed electrical materials		1	
1	set	Equipment table with 2 drawers, black with	1 1		
	001	beveled edge is heat/acid/chemical/stain/scratch/	1 ' 1	1	
		impact/wear resistant, dimensions is based on			
		the equipment		l	
1	set	Laboratory chair (polyurethane foam seat and back	1 1	i	
	301	with 6mm thickness seat and back, chrome base	1 ' 1		
		and stainless steel foot with seat height adjustment)	1 1	1	
	set	Laboratory dehumidifier, 24L (capable of extracting	1 1	1	
	361	24 L of water per day from the atmosphere, mounted	1 ' 1	1	
		on rubber wheels with lock for anti-slip and low	1 1		
		vibration, silent operation, working range humidity:		J	
1					
-		49-100% RH, working range temperature: 5-35°C,	1 1	1	
ı		Amount of air: 18m/h, tested by TUV and carries			
1	4	the GS mark for approved safety)	1 . 1	1	
1	set	Multiple Power Outlet (5 meters in length, wattage	1 1	l	
1		depending the equipment, 5 outlets)		1	
- 1	set	AAS Preventive Maintenance Kit	2	- 1	
	unit	Bottle top dispenser for 1-10 mL volume capacity	3	1	
1		with recirculation valve, can dispense aggressive	1 1	1	
- 1		reagents, including concentrated bases and acids,		l	
1		saline solutions, as well as many organic solvents,			
1		include 3 pcs 250 mL glass bottle			
1	set	1 unit of Pipettor for 100-1000 µL and 1 unit of	1 1		
i		Pipettor 20-200µL volume capacity (biocompatible,		ľ	
		universal tip cone, adjustable volume, with		1	
1		conformity certification and performance certificate,		l	
1		accuracy is 0.6% and repeatability or coefficient		1	
		of variation is 0.2%, include calibration certificate		l	
- 1		from ISO 17025 accredited laboratory)		1	
1	set	96 pcs Pipet tips, Polypropylene (PP), Blue, pointed/	1	I	
1		narrow tip, non-pyrogenic; Rnase/Dnase-free 100-			
- 1		1000µL with 1 tip box for 100-1000µL pipette tips		1	

Supplier:	INSTRU	MIX SUPPLIER, INC.	P.O. No. :	TGAAE-PO-202	-01-0002 (STD)	
Address:			Date :	January 16, 2025		
IN:			Mode of Procurement : Public Bidding			
Gentlemen: Ple	ase furnish th	is Office the following articles subject to the terms and conditions	contained here	in:		
Place of Delive	ery :	STD Building	Delivery Te	rm : 90 calendar days		
Date of Delive			Payment Te	erm :		
tock/ Proper No.	rty Unit	Particulars	Quantity	Unit Cost	Amount	
	set	96 pcs Pipet Tips, Polypropylene (PP), Yellow, non-pyrogenic; Rnase/Dnase-free 20-200µL with 1 tip box for 20-200µL pipette tips	1		•	
	set	30 mL wide mouth HDPE bottles, 60 pcs	1			
	set	3 bottles of Palladium Nitrate, 100mL, 10000mg/L (modifier)	1			
	set	3 bottles Magnesium Nitrate, 100mL, 10000mg/L (modifier)	1			
	set	3 bottles Ammonium phosphate, 100mL, 10000mg/L (modifier)	1	,		
	set	Hallow cathode lamp	1			
	set	Arsenic, As; Aluminum, Al; Cadmium, Cd; Calcium,	'	[		
		Ca; Cobalt, Co; Chronium, Cr; Copper, Cu; Iron, Fe; Potassium, K; Magnesium, Mg; Manganese, Mn; Sodium, Na; Silver, Ag; Nickel, Ni; Lead, Pb;		1 4		
	set	Selenium, Se; Silicon, Si; Titanium, Ti and Zinc, Zn Individual AAS Standards (traceable to SRM of NIST),	1			
		1,000 mg/l, 100mL for the following elements: Arsenic, As; Aluminum, Al; Cadmium, Cd; Calcium, Ca; Cobalt, Co; Chronium, Cr; Copper, Cu; Iron, Fe; Potassium, K; Magnesium, Mg; Manganese, Mn; Sodium, Na; Silver, Ag; Nickel, Ni; Lead, Pb; Selenium, Se; Silicon, Si; Titanium, Ti and Zinc, Zn (with expiration until December 2026)				
		Equipment Warranty: two (2) years on parts and services of the Graphite Furnace and Flame Atomic Absorption Spectrophotometer (with Accessories) against defects after acceptance by the Procuring Entity of the delivered goods. Annual preventive maintenance services for two (2) years to the Graphite Furnace and Flame Atomic Absorption Spectrophotometer (with accessories) included in the warranty. Maintenance kits included during preventive maintenance. Availability of spare parts: System have a five (5) year value guarantee on parts and comprehensive				
		services.  Installation and Commissioning: Installation (both hardware and software), testing, and commissioning and training on operation, maintenance, and troubleshooting (with training certificates)  On-site Training: Operational training: training on operation, data analysis, troubleshooting with the assigned application chamist				

assigned application chemist.

Others: Support of local engineers and application chemist with experiece and training relevant to Graphite Furnace and Flame Atomic Absorption

Supplier :	INSTRUM	IX SUPPLIER, INC.	P.O. No. :	GAAE-PO-202	2-01-0002 (STD)	
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Gentlemen: Pleas	e furnish this	Office the following articles subject to the terms and conditions co	ntained herei	in:		
Place of Delivery Date of Delivery		STD Building	Delivery Ter Payment Te	m : 90 calendar days		
Stock/ Property No.	Unit	Particulars	Quantity	Unit Cost	Amount	
		Spectrophotometer (with Accessories) with full on-site technical support. On-call within the lifetime of the equipment  With specialized tools for routine maintenance and simple troubleshooting. Instrumix Supplier Inc must perform site preparation/verification inspection prior to delivery of the instrument. Instrumix Supplier Inc have 7 factory trained engineer, and 3 application chemist dedicated to GFAAS (Note: engineer and application chemist have certificate of trainings on the quoted instrument). Operational training for training on operation, data analysis, troubleshooting with the assigned application chemist at DOST-ITDI for 25 participants. Necessary supplies enough for the conduct of the operational training (e.g. gases, standard to use for trial run, sample generation reagent and materials)				
			Less: VAT	276,250.00	6,188,000.00	
	END USER:	JOHANNA ANDREA VALDUEZA	EWT	55,250.00 TOTAL:	331,500.00 <b>5,856,500.00</b>	
(Total Amount in	Words):	Five Million Eight Hundred Fifty Six Thousand Five Hundred Pesos	only			
In case of failure to make the full delivery within the time specified above, a penalty of one-timposed on the undelivered item/s.  Conforme:  Signature over Printed Name of Supplier  Date				Very truly yours,  DR. ANNABELLE V. BRIONES  Signature over Printed Name of Authorized Official Director Designation		
Fund Cluster : Funds Available	Funde Available:			ORS/BURS No. :  Date of the ORS/BURS:		
		PATRICIA ASHLEY M. MENDOZA				
	Signatur	re over Printed Name of Chief Accountant/Head of Accounting Division/Unit Accountant IV				