

**BIDS AND AWARDS COMMITTEE** 

Tel No. (042) 567 - 5273/5859/6234

Tele Fax No. (042) 567-5270

### NOTICE OF BID BULLETIN MODIFICATION ON ITEM DESCRIPTION

то	:	TO ALL PROSPECTIVE BIDDERS
FROM	:	THE BAC Chairperson
SUBJECT	:	Modification of Item Description in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications
DATE	:	February 18, 2020
ADDENDUM NO.	:	2020-01

Please be informed that this Bid Bulletin is issued to inform all prospective bidders for the Modification of Item Description in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications. Please take notice about this change: Solicitation No. RSU-2020-004.

Be advised that this addendum is issued to modify or amend the Item Description in all the attached/associated documents in the Invitation to Bid (ITB), Abstract of Quotation and Technical Specifications. This shall form an integral part of the Bid Documents.

Please refer to the attached Bid Bulletin.

For guidance and information of all concerned.

Yours,

Prof. MARIO A. FETALVER, Jr., Ph. D. BAC Chairperson



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Tel No. (042) 567 - 5273/5859/6234

PROCUREMENT OF LABORATORY EQUIPMENT

Tele Fax No. (042) 567-5270

#### PROCUREMENT OF LABORATORY EQUIPMENT SOLICITATION Number: RSU-2020-004

ABC: PhP2,000,000.00

QTY: 6

то

FROM PROCUREMENT OF LABORATORY EQUIPMENT

ABC:PH	ABC:PHP2,000,000.00				ABC:PHP2,000,000.00			
Unit	Item Description	QTY		Unit	Item Description	QTY		
	TOP (Universal Testing Machine to test the NPK,				Universal Testing Machine to test the NPK, organic matter,			
	organic matter, salinity and pH)				salinity and pH			
	Technical Parameters:				lechnical Parameters:			
	Measurement range and resolution:0.001 ~ 9999				Measurement range and resolution: $0.001 \sim 9999$			
	Stability: less than 0.003 within three minutes' drift				Stability: less than 0.003 within three minutes drift			
	Repeatability error less than 0.005				Repeatability error loss than 0.005			
	$r_{e}$ repeatability error less that 0.000				consitivity and light $> 4.5 \times 10.5$			
	sensitivity.red light $\geq 4.3 \times 10^{-3}$ ,				sensitivity. Teu light $\geq 4.3 \times 10^{-5}$ ,			
	areen light $> 2.35 \times 10^{-3}$				Dide light $\geq 5.17 \times 10^{-5}$ ,			
	$\frac{\text{green light}}{2.55 \times 10^{-5}}$							
	Wavelength range red light: $680 \pm 2$ nm:				Wavelength range red light: $690 \pm 2$ pm			
	wavelength range. red light: $000 \pm 2 \text{ hm}$ ,				blue light $\cdot 420+2$ nm			
	green light : 510±2nm							
unit				unit		1		
	Urange light : 590±21111. The technical parameters of PH value (pH)							
	measurement:				The technical parameters of PH value (pH) measurement:			
	A. test range: $1 \sim 14$ B. error: $\pm 0.1$				A. test range: 1 $\sim$ 14 B. error: ±0.1			
	Power supply of the tester: A. AC: 180V ~ 240V,				Power supply of the tester: A. AC: 180V ~ 240V, 50Hz; B.			
	50Hz; B. DC: 12V, 5W (car)				DC: 12V, 5W (car)			
	NPK combined extraction: takes 3 minutes to				NPK combined extraction: takes 3 minutes to complete the			
	complete the leaching of soil nitrogen, phosphorus				leaching of soil nitrogen, phosphorus and potassium at the			
	and potassium at the same time.				same time.			
	Test sneed measure a soil sample (N. P. K) <				Test sneed measure a soil sample (N. P. K) <			
	30 minutes and measure 5 soil				30 minutes and measure 5 soil			
	somplas $< 50$ minutes				samples < 50 minutes			
	Shock resistance qualified				Shock resistance qualified			
	Tripocular Digital Biological Microscope				Trinocular Digital Biological Microscope	┟───┦		
	Compound Microscope		1					
unit	4/10/40/100; WF 10x18; LED with ODC 152			unit	4/10/40/100: WE 10x18: LED with ODC 152	2		
					Microscope camera: 5MP CMOS1/2 5" Color			
	IV - VIS Spectrophotometer (Double Beam)				IV - VIS Spectrophotometer (Double Beam)			
	Wavelength range : 190 to 1,100 nm Spectral bandwidth : 1 nm (190 to 1 100 nm)				Wavelength range : 190 to 1,100 nm			
					Spectral bandwidth : 1 nm (190 to 1 100 nm)			
	Wavelength display : 0.1nm increments				Wavelength display : 0.1nm increments			
	Wavelength display : 0.1nm increments				Wavelength display : 0.1nm increments			
	Wavelength security : $\pm 0.1$ nm at D2 peak 656.1							
	nm,			unit	Wavelength accuracy : $\pm$ 0.1 nm at D2 peak 656.1 nm,			
	± 0.3 nm for entire range				± 0.3 nm for entire range			
	Wavelength repeatability : $\pm$ 0.1 nm				Wavelength repeatability : $\pm$ 0.1 nm			
	Wavelength slew rate : About 14,500 nm/min				Wavelength slew rate : About 14,500 nm/min			
	<ul> <li>Wavelength scanning speed : 3,000 to 2 nm/min (29,000 nm/min when survey scanning)</li> <li>Lamp interchange wavelength : Automatic interchange linked to wavelength; The interchange wavelength can be set freely in The range of 295 to 364 nm (0.1 increments).</li> <li>Stray light : Less than 0.02% at 220 nm (Nal); Less than 0.02% at 340 nm (NaNO2); Less than .5% at 198 nm (KCl)</li> <li>Photometric system : Double beam optics</li> <li>Photometric mode: Single-wavelength measurement; 1. Photometric modes: T% or Abs</li> <li>Quantitation using K-factor method 3. Data table storage and recall functions Multiple- wavelength measurement</li> </ul>				Wavelength scanning speed : 3,000 to 2 nm/min (29,000			
unit					to wavelength: The interchange wavelength can be set freely	1		
unn					in The range of 295 to 364 nm (0.1 increments).	-		
					Church light a loss than 0.020/ at 220 pm (Nolly Loss than			
					0.02% at 340 nm (NaNO2); Less than $0.02%$ at 220 nm (NaI); Less than $0.02%$ at 340 nm (NaNO2); Less than $.5%$ at 198 nm (KCl)			
					Dhatamatria system - Daukla kaom antias			
					Photometric system : Double beam optics			
					Photometric mode: Single-wavelength measurement;			
					factor method 3. Data table storage and recall functions			
					Multiple-wavelength measurement			
	Photometric range: 1. Photometric modes: T% or				Photometric range: 1. Photometric modes: T% or ABS			
	ABS 2. Measurements at up to eight designated				2. Measurements at up to eight designated wavelengths (set			
	wavelengths (set in 0.1 mm increments)				Absorbance: -4 to 4 Abs			
	: ADSOLDANCE: -4 TO 4 ADS				Transmittance: $1\%$ to $400\%$			
	11ansmillance. 070 to 400%					L		

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	Photometric accuracy : ± 0.002 Abs at 0.5 Abs; ± 0.004 Abs at 1.0 Abs; ± 0.006 Abs at 2.0 Abs (measured using NIST930D/NIST1930 or equivalent)			Photometric accuracy : $\pm$ 0.002 Abs at 0.5 Abs; $\pm$ 0.004 Abs at 1.0 Abs; $\pm$ 0.006 Abs at 2.0 Abs (measured using NIST930D/NIST1930 or equivalent)	
	Photometric repeatability : Less than $\pm$ 0.0002 Abs at 0.5 Abs; Less than $\pm$ 0.0002 Abs at 1 Abs; Less than $\pm$ 0.001 Abs at 2 Abs			Photometric repeatability : Less than $\pm$ 0.0002 Abs at 0.5 Abs; Less than $\pm$ 0.0002 Abs at 1 Abs; Less than $\pm$ 0.001 Abs at 2 Abs	
	Multi-component quantitation mode : 1. Up to eight components quantified at once; 2. A mixture, as well as pure components, can be used as a standard; 3. Data on standards samples can be stored, in addition to measurement wavelengths; 4. Quantitation of recalled spectrum data			Multi-component quantitation mode : 1. Up to eight components quantified at once; 2. A mixture, as well as pure components, can be used as a standard; 3. Data on standards samples can be stored, in addition to measurement wavelengths; 4. Quantitation of recalled spectrum data.	
	Baseline stability : Less than 0.0003 Abs/Hr (700 nm, one hour after light source turned ON) Baseline flatness : Less than ± 0.0006 Abs (1,100			Baseline stability : Less than 0.0003 Abs/Hr (700 nm, one hour after light source turned ON) Baseline flatness : Less than $\pm$ 0.0006 Abs (1,100 to 190 nm	
	to 190 nm one hour after light source turned ON)			one hour after light source turned ON)	
	Noise Level : Less than 0.00005 Abs (700 nm)			Noise Level : Less than 0.00005 Abs (700 nm)	
	Light source : 20-W halogen lamp and deuterium lamp Built-in light source auto position adjustment			Light source : 20-W halogen lamp and deuterium lamp Built- in light source auto position adjustment	
	Monochromator : LO-RAY-LIGH grade blazed holographic grating in Czerny-Turner Mounting			Monochromator : LO-RAY-LIGH grade blazed holographic grating in Czerny-Turner Mounting	
	Sample compartment : Internal dimensions: 110				
	(W) x 250 (D) x 115 (H) Distance between light beams : 100 mm			Sample compartment : Internal dimensions: 110 (W) x 250 (D) x 115 (H) Distance between light beams : 100 mm	
	Environmental requirements : Temperature: 15°C to 35°C Humidity: 30% - 80% (without condensation: 70% max, at 30°C or higher)			Environmental requirements : Temperature: 15°C to 35°C Humidity: 30% - 80% (without condensation; 70% max. at 30°C or higher)	
	Dimensions : 450 W x 501D x 244 H; 16.6 kg			Dimensions : 450 W x 501D x 244 H; 16.6 kg	
	PC compatibility: Provided with UVProbe sotware.			PC compatibility: Provided with UVProbe sotware. External	
	Accessories: Quartz cuvette; complete PC system			Accessories: Quartz cuvette; complete PC system and printer	
	and printer and AVR compatible with the system			and AVR compatible with the system	
	Vertical Autoclaves for Life Sciences			Vertical Autoclaves for Life Sciences	
	160 L chamber			160 L chamber	
	Liquid sterilization with various cooling options			Liquid sterilization with various cooling options	
mit	Chamber Dimensions: 380 x 690	1		Chamber Dimensions: 380 x 690	1
unn	Chamber Volume: 85L External Dimensions: WyHyD (mm) 730 x 1000 y	T	un	Chamber Volume: 85L	I
	540			External Dimensions: WxHxD (mm) 730 x 1000 x 540	
	With a safety devise and independent flexible PT100 temperature sensors to prevent over-boiling of liquids and explosions of bottles			With a safety devise and independent flexible PT100 temperature sensors to prevent over-boiling of liquids and explosions of bottles	
	Veterinary Wristcan Ultrasound Scanner Machine			Veterinary Wristcan Ultrasound Scanner Machine Handscan	
	Handscan for Farm Animals Dust-proof and water-proof: Small size light			for Farm Animals	
	weight, handheld; Rubber protector around scanner; Recharbeable battery; Both battery and AC powered			Dust-proof and water-proof; Small size, light weight, handheld; Rubber protector around scanner; Recharbeable battery; Both battery and AC powered	
	Probe: 3.5MHz Mecahnical sector probe			Probe: 3.5MHz Mecahnical sector probe	
	Detect Depth (mm): $\ge$ 140; $\le$ 4 (Depth $\le$ 130)			Detect Depth (mm): $\ge$ 140; $\le$ 4 (Depth $\le$ 130)	
set	Resolution - Lateral: ≦5(80 <depth≦130); axial<br="">≤2(Depth≦80)</depth≦130);>	1	set	Resolution - Lateral: $\leq$ 5(80 <depth<math>\leq130); Axial <math>\leq</math>2(Depth<math>\leq</math>80)</depth<math>	1
	Blind zone (mm): ≤8;			Blind zone (mm): ≤8;	
	Geometric position precision: Horizontal $\leq 20$ ; Vertical $\leq 10$			Geometric position precision: Horizontal $\leq 20$ ; Vertical $\leq 10$	
	Image gray scale: 256			Image gray scale: 256	
	Scan Depth (mm): 120~190,8 leavels adjustable			Scan Depth (mm): 120~190,8 leavels adjustable	
1070	Includes neck belts			Includes neck belts	~
IUIAL	QTY	6	101/	۳ QTY _	6