

Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Regional Office No. 1
DMMMSU MLU Campus, San Fernando City, La Union
Tel. No. / Fax No.: **072-8883399**
Email Address: mail@region1.dost.gov.ph

SUPPLEMENTAL/BID BULLETIN
On the Purchase of Various Laboratory Equipment

ADDENDUM NO. 2023-01

This Addendum No. 1 is issued to modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents.

1. Deadline of Issuance and Sale of Bid Documents will be on March 27, 2023.
2. Payment of Bid Documents is equivalent to each item pursuant to the latest Guidelines, Appendix 8, on the Sale of Bidding Documents issued by the GPPB.
3. On-site Calibration of items should be done by an ISO 17025 certified calibration lab or service engineers with calibrated equipment traceable to National Metrology Laboratory
4. Include the commissioning, after sales, installation services and warranty.
5. Offer higher specifications than the minimum specs.
6. Bidders should submit 3 sealed envelopes marked " ORIGINAL ", " COPY No. 1 ", " COPY No. 2 ".
7. Ballpen for signing must be color "BLUE".
8. Revised Specifications as stated below:

Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
CHEMISTRY LABORATORY				
UV-VIS Spectrophotometer	1 unit			P1,500,000.00
		Wavelength: 190-1100 nm	Wavelength: 190-1100 nm	
		Optical System: Double beam	Optical System: Double beam	
		Spectral bandwidth: 1-5nm	Spectral bandwidth: 1-10nm	
		Light source: Halogen/Deuterium or Xenon	Light source: Halogen/Deuterium or Xenon	
		Detector: Silicone photodiode	Detector: Silicone photodiode	
		Display: Graphic LCD, or touch screen with touch pen inclusion	Display: Graphic LCD, or touch screen with touch pen inclusion	
		Data output: USB, printer port	Data output: USB, printer port	
		PC Compatibility: UV-Vis software	PC Compatibility: UV-Vis software	
		Sample compartment: suitable for 5-100mm pathlength cuvet	Sample compartment: suitable for 5-100mm pathlength	
		Power requirements: 100-240V, 50/60Hz	cuvette, at least 4 pcs (2 each optical glass and quartz)	
		application software	Power requirements: 100-240V, 50/60Hz with avr/ups	
		warranty certificate	advance application software and support with laptop (corei5) and printer workstation	
		installation, commissioning, calibration and preventive maintenance	avr/ups	
		training for end users (with certificate)	At least 1 year warranty certificate on service and parts and after-sales service	
		-better or equivalent	installation, commissioning, calibration (form ISO/IEC 17025 accredited laboratory) and preventive maintenance	
			training (operation, troubleshooting, maintenance, equipment verification, method validation and application) for end users (with certificate) from manufacturer	
			-better or equivalent	
Acid/Base Hydrolysis System for Fat Extraction	1 unit			P2,000,000.00
		Operation: Automatic/Semi-Automatic	Operation: Automatic	
		Application: Food and feeds	Application: Food and feeds	
		Material: Chemical resistant	Material: Chemical resistant	
		Temperature range: max 425°C	Temperature range: can reach 200°C or higher	
		Number of Samples: 6 or more	Number of Samples: 6 or more	
		warranty certificate	advance application software and support with laptop (corei5)	
		installation, commissioning, calibration and preventive maintenance	with AVR/UPS	
		training of end users(with certificate)	Compatible with the existing equipment for fat extraction of the laboratory	

Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
		-better or equivalent	Compatible with existing fat extractor of the laboratory Extraction beakers, filter papers and other necessary glasswares and tools	
			At least 1 year warranty certificate on service and parts and after-sales service	
			installation, commissioning, calibration (from ISO/IEC 17025 accredited laboratory) and preventive maintenance	
			training (operation, troubleshooting, maintenance, equipment verification, method validation and application) for end users (with certificate) from manufacturer	
			-better or equivalent	
Microwave Digestion System	1 unit	Application: Food, feed, environment, water, beverage	Application: Food, feed, environment, water, beverage	₱4,000,000.00
		Microwave Cavity: Large Volume (56L or higher) Capacity; Corrosion resistant stainless steel cavity, with Sample position (rotor): 12 or higher	Microwave Cavity: Large Volume capable of holding 24 position rotor or higher, 316 stainless steel housing, Microwave digestion system of 1800 W or higher	
		Real-time Temperature and Pressure monitoring on each and all vessels	Dual magnetron system	
		Maximum Temperature and Pressure: the higher, the better	Rotor: 24 positions high performance throughput rotor or higher	
		Acid resistant vessels: at least 60mL capacity	Real-time Temperature (and Pressure, if applicable) monitoring on each and all vessels (contactless control)	
		Explosion-proof design/system, safe pressure vent system for safe opening (vessel and equipment) , automatic shut-off or control system	Temperature and Pressure: capable of operating at 60 bar, 250 C or higher	
		Pre-loaded digestion methods/software application	Acid resistant vessels (inner liner of PFA, other TFE, capable of withstanding at least 760±70kPa), at least 50mL sample capacity	
		warranty certificate	Explosion-proof design/system, safe pressure vent system for safe opening (vessel and equipment) , automatic shut-off or control system	
		installation, commissioning, calibration and preventive maintenance	Software application and support, with pre-loaded digestion methods (Standard methods -EPA, AOAC, ASTM, SMEWW, etc.) , and capable for user-defined method	
		training of end users(with certificate)	Control Terminal: Touchscreen, usb ports	
		-better or equivalent	avr/ups	
			At least 1 year warranty certificate on service and parts and after-sales service	
			installation, commissioning, calibration (from ISO/IEC 17025 accredited laboratory) and preventive maintenance	
			training (operation, troubleshooting, maintenance, equipment verification, method validation and application) for end users (with certificate) from manufacturer	
			-better or equivalent	
Kjeldahl System	1 unit	Kjeldahl System/Protein Analyzer (Distillation- Digestion-Scrubber)*	Kjeldahl System/Protein Analyzer (Distillation- Digestion-Scrubber)*	₱2,000,000.00
		*Kjeldahl Distillation system	*Kjeldahl Distillation system	
		Multi-functional (suitable for non-Kjeldahl application)	Multi-functional (suitable for non-Kjeldahl application)	
		Programmable, automatic addition of NaOH and Water	Programmable, automatic addition of NaOH and Water	
		Programmable distillation time and reaction time	Programmable distillation time and reaction time	
		Automatic suction for steam and residue	Automatic suction for steam and residue	
		Steam power, 10-100%	Steam power, 10-100%	
		Recovery: >99.5%	Recovery: >99.5%	
		Reproducibility: ±1% or better	Reproducibility: ±1% or better	
		Detection limit: 0.1mg N or lower	Detection limit: 0.1mg N or lower	
		With Safety features	With Safety features	


Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
		Tank level control Quick start feature Pre-defined and User-defined methods *Kjeldahl Digestion system (Digestor) Temperature: up to 430°C or higher Temperature accuracy: ±1% or lower Programmable features Safety Features Corrosion resistant Heating places: 20 or higher Size of tubes: 250/300 mL Automatic Lift Features *Scrubber Corrosion resistant High efficiency neutralization and absorption Adjustable suction power Integrated vacuum pump warranty certificate installation, commissioning, calibration and preventive maintenance training of end users(with certificate) -better or equivalent	Tank level control with storage tanks for water, alkali and waste Quick start feature avr/ups Programmable features Pre-defined methods (Standard methods -EPA, AOAC, ASTM, SMEWW, etc.), and capable for user-defined methods recirculating chiller (cooling temp: -10 to 25° C, 3-6.5L water capacity) *Kjeldahl Digestion system (Digestor) Temperature: up to 430°C or higher Temperature accuracy: ±1% or better Programmable features Pre-defined methods (Standard methods -EPA, AOAC, ASTM, SMEWW, etc.), and capable for user-defined methods Safety Features avr/ups Corrosion resistant Heating places: 20 or higher Size of tubes: 250/300 mL Automatic Lift Features Digestion tubes, 20 pcs minimum Digestion block, insert rack, water jet pump (isoversinic tubing) and exhaust manifold Catalysts tablets (1000 pcs) and antifoam tables (1000 pcs) *Scrubber Corrosion resistant High efficiency neutralization and absorption Adjustable suction power Integrated vacuum pump no water supply required or equivalent At least 1 year warranty certificate on service and parts and after-sales service installation, commissioning, calibration (from ISO/IEC 17025 accredited laboratory) and preventive maintenance training (operation, troubleshooting, maintenance, equipment verification, method validation and application) for end users (with certificate) from manufacturer -better or equivalent	
MICROBIOLOGY LABORATORY				
ELISA HISTAMINE ANALYSER	1 unit	Linear measurement range: .00 to 3.0 absorbance Unit (A) Photometric Accuracy: +/- (1%/ 0.010) 0.0 through 1.5 ABS Stability : Drift of no more than 0.005A in 8 hours in Light Source: Tungsten-Xenon lamp with lamp saver Standard Wavelengths: 405, 450,492 and 650 nm Filter type: IAD hard-coat interference, 10 nm half bandpass Vessel: Single,or break a part strips up to 12 wells long, 3 strip loading capacity Display: Interactive touch screen 3.5"(8 CM) LCD Printer : built in printer Power Requirements : 100-240VAC, 1.2 A (universal input) Microprocessor : 50MHz eZ80,64K EEPROM Speed: reads, calculates and prints result, 30 seconds per 12-well strips Calculations: Single point calibration by standard or factor, multipoint calibration with point-to point curve fit, linear regressions with log, lin and log-logit selection, cubic spline and cutoof mode selection.	Linear measurement range: .00 to 3.0 absorbance Unit (A) Photometric Accuracy: +/- (1%/ 0.010) 0.0 through 1.5 ABS Stability : Drift of no more than 0.005A in 8 hours Light Source: Tungsten-Xenon lamp with lamp saver Standard Wavelengths: 405, 450,492 and 650 nm Filter type: IAD hard-coat interference, 10 nm half bandpass Vessel: Single,or break a part strips up to 12 wells long, 3 strip loading capacity Display: Interactive touch screen 3.5"(8 CM) LCD Printer : built in printer Power Requirements : 100-240VAC, 1.2 A (universal input) Microprocessor : 50MHz eZ80,64K EEPROM Speed: reads, calculates and prints result, 30 seconds per 12-well strips Calculations: Single point calibration by standard or factor, multipoint calibration with point-to point curve fit, linear regressions with log, lin and log-logit selection, cubic spline and cutoof mode selection.	₱1,500,000.00

Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
		READY TO USE SYSTEM for Histamine analyses	READY TO USE SYSTEM for Histamine analyses	
		warranty certificate	laptop corei5 (compatible with the sorftware)	
		installation, commisioning, calibration and preventive maintenance	Histamine Software	
		training of end users(with certificate)	4 set histamine kit(capable to test atleast 30 samples)	
		-better or equivalent	1 set starter kit (pippetors with tips, microwell holder, wash bottles, reagent boats, 15mL graduates tubes (500pcs), marking pens, 1 pcs 13mm tube racks)	
			Compatible with other applications such as allergens and toxins	
			At least 1 year warranty certificate on service and parts and after-sales service	
			installation, commissioning, calibration(from ISO/IEC 17025 accredited lab if applicable) and preventive maintenance	
			training (operation, troubleshooting, maintenance, equipment verification, method validation and application) for end users (with certificate) from manufacturer	
			-better or equivalent	
Shelllife Testing Laboratory				
Biosafety Cabinet Class 2 A II	1 unit	Construction: External dimensio: 28" stand, 1950 x 810 x 2111 mm	Construction: 6 feet ductless type	₱1,500,000.00
		Internal: 1830 x580 x 670mm	External dimension: 28" stand, 1950 x 810 x 2111 mm	
		materials: Main body: 1.2 mm(0.05") 18-guage electro-galvanized steel with white	Internal: 1830 x580 x 670mm	
		oven baked epoxy- polymer antimicrobial powder coated finished	materials: Main body: 1.2 mm(0.05") 18-guage electro-galvanized steel with white	
		Work Zone: abrasion and corrosion resistant 304 grade, 1.5mm 16 gauge	oven baked epoxy- polymer antimicrobial powder coated finished	
		stainless steel with 4B finish	Work Zone: abrasion and corrosion resistant 304 grade, 1.5mm 16 gauge	
		Side walls: 1.5 mm(0.06") 16 gauge stainless steel, type 304 with 4B finish	stainless steel with 4B finish	
		Airflow:	Side walls: 1.5 mm(0.06") 16 gauge stainless steel, type 304 with 4B finish	
		Ultralow Particulate Air (ULPA)/h14 with 99.999% efficeincy at 0.3-0.1um	Airflow:	
		airflow volume: 519 cmh (inflow); 1146chm(dowflow)	Ultralow Particulate Air (ULPA)/h14 with 99.999% efficiency at 0.3-0.1um or equivalent	
		ISO 14644 1 Class 3 air quality	airflow volume: 519 cmh (inflow); 1146chm{dowflow}	
		Control Panel and electrical: Easy to use soft keys for menu, blower ,lights, UV, Elctrical outlets, etc.	ISO 14644-1 Class 3 air quality	
		Large display which monitors the operational parameters	Control Panel and electrical: Easy to use soft keys for menu, blower ,lights, UV, Elctrical outlets, etc.	
		Electrical Requirement	Large display which monitors the operational parameters	
		Power rating: 220-240VAC 60Hz,1Ø	Electrical Requirement	
		Nominal Power Consumption : 606W	Power rating: 220-240VAC 60Hz,1Ø	
		Lighting:	Nominal Power Consumption : 606W	
		Flourocent lamp intensity : 1044 Lux	Lighting:	
		UV light 253.7 nm	Flourocent lamp intensity : 1044 Lux	
		Exhaust:	UV light 253.7 nm	
		air tight damper, thimble exhaust, anti blowback valve	Exhaust:	
		Ergonomics:	air tight damper, thimble exhaust, anti blowback valve	
		Easy to service. All electrical components located at the V-Centered and angled-down location of the control panel	Ergonomics:	
		Support stand	Easy to service. All electrical components located at the back of the front panel	
		ergonomic Foot rest and lab chair	V-Centered and angled-down location of the control panel	
		Angled arm rest	Support stand	
		Easy to reach electrical outlets located at the sides of the cabinet	ergonomic Foot rest and lab chair	
		Easy to cleancoved corners in the working area and smoothly finished corners of the drain pan	Angled arm rest	
		Spill containing single pice work tray with large tray handles	Easy to reach electrical outlets located at the sides of the cabinet	
			Easy to cleancoved corners in the working area and smoothly finished corners of the drain pan	

Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
		warranty certificate	Spill containing single pice work tray with large tray handles	
		installation, commisioning, calibration and preventive maintenance	At least 1 year warranty certificate on service and parts and after-sales service	
		training of end users(with certificate)	installation, commissioning, calibration(from ISO/IEC 17025 accredited) and preventive maintenance	
		-better or equivalent	training (operation, troubleshooting, maintenance) for end users (with certificate) from manufacturer	
			-better or equivalent	
Autoclave	2 units	Vertical standing type	Vertical standing type	₱1,500,000.00
		Chamber volume: 50-55L	Chamber volume: 50-55L	
		Temperature range: 105-132C of higher	Temperature range: 105-132C of higher	
		Operation Pressure range: 216kpa or hogher	Operation Pressure range: 216kpa or hogher	
		Temperature control: Digital, microprocessor controlled or equivalent	Temperature control: Digital, microprocessor controlled or equivalent	
		Pressure display: Analog/0-400kPA or higher	Pressure display: Analog/0-400kPA or higher	
		Timer Control: Digital, Microprocessor controlled or equivalent	Timer Control: Digital, Microprocessor controlled or equivalent	
		Sterilizing mode: 1-24 mins, continous or better	Sterilizing mode: 1-24 mins, continous or better	
		chamber material: SUS 304	Chamber material: SUS 304	
		Chamber dimension: dia x320-325x730-740 mm	Chamber dimension: dia x320-325x730-740 mm	
		External dimension: WDH 480-490x550-560x1090-1095mm	External dimension: WDH 480-490x550-560x1090-1095mm	
		Temp Range: up to 134C	Temp Range: up to 134C	
		Power: 220-240V Single Pase 60Hz	Power: 220-240V Single Pase 60Hz	
		Part: stainless steel buckets and avr	Part: stainless steel buckets and avr	
		safety features:	safety features:	
		Inside chamber overheat prevention	Inside chamber overheat prevention	
		Outer wall of the chamber overheat prevention	Outer wall of the chamber overheat prevention	
		Over pressure prevention	Over pressure prevention	
		Temperature sensor disconnection	Temperature sensor disconnection	
		Empty heating prevention	Empty heating prevention	
		Safety Valve	Safety Valve	
		malfunction prevention devices:	malfunction prevention devices:	
		Low level indicator	Low level indicator	
		Exhaust valve knob open/close detection	Exhaust valve knob open/close detection	
		Chamber lif open/close detection	Chamber lift open/close detection	
		warranty certificate	At least 1 year warranty certificate on service and parts and after-sales service	
		installation, commisioning, calibration and preventive maintenance	installation, commissioning, calibration(from ISO/IEC 17025 accredited lab) and preventive maintenance	
		training of end users(with certificate)	training (operation, troubleshooting, maintenance) for end users (with certificate) from manufacturer	
		-better or equivalent	-better or equivalent	
Incubator	3 units	temperature range: +5C above ambient to 100C	Inner Volume: 400-550L	₱1,500,000.00
		preheating chamber technology	temperature range: +5C above ambient to 100C (for equipment sterilization)	
		natural convection exhaust air flap	preheating chamber technology	
		inner door made of tempered safety glass	natural convection exhaust air flap	
		Class 3.1 independent, temperature safety device DIN 12880,	inner door made of tempered safety glass	
		with visual tempearture alarm	Class 3.1 independent, temperature safety device DIN 12880,	
		Interface: RS 422	with visual tempearture alarm	
		Temperature variation at 37C +/-0.5K	Interface: RS 422	
		Temerature fluctuation at 37C: +/-0.1K	Temperature variation at 37C +/-0.5K	
		External Diameter: WHD 1235 x 1025 x 765 mm	Temperature fluctuation at 37C: +/-0.1K	
		Internal diameter: WHD 1000 x 800 x 500mm	External dimension: WHD 1235 x 1025 x 765 mm	
		Unit door: 2	Internal dimension: WHD 1000 x 800 x 500mm	

Item	Quantity/ Unit	Original Specifications	Revised Specifications	Approved Allotment
		Inner volume: 400L	Unit door: 2	
		Parts: stainless steel racks	At least 1 year warranty certificate on service and parts and after-sales service	
		power: 220V,60Hz	installation, commissioning, calibration(from ISO/IEC 17025 accredited lab) and preventive maintenance	
		warranty certificate	training (operation, troubleshooting, maintenance) for end users (with certificate) from manufacturer	
		installation, commissioning, calibration and preventive maintenance	-better or equivalent	
		training of end users(with certificate)		
		-better or equivalent		
Metrology Laboratory				
Mass Comparator	1 unit	Capacity: 5kg, resolution : 0.1mg •Repeatability, optimal: 0.3mg or lower •Repeatability, standard: 0.5mg or lower •Repeatability, 10% load: 0.3mg or lower •Linearity: 2mg or lower •Eccentric load deviation: 151ug/mm or better •Stabilization time: 3 sec or better •With integrated Climate module for recording temperature, humidity and air pressure	Capacity: 5kg, resolution : 0.1mg •Repeatability, optimal: 0.3mg or lower •Repeatability, standard: 0.5mg or lower •Repeatability, 10% load: 0.3mg or lower •Linearity: 2mg or lower •Eccentric load deviation: 151ug/mm or better •Stabilization time: 3 sec or better •With integrated Climate module for recording temperature, humidity and air pressure At least 1 year warranty certificate on service and parts and after-sales service	₱4,000,000.00
Pneumatic Pressure Comparator	1 unit	Pressure range 0 to 20 MPA (3000 psi). Adoptors 2 sets, 1/8, 1/4, 3/8, and 1/2 NPT or BSP	Pressure range 0 to 20 MPA (3000 psi). Adoptors 2 sets, 1/8, 1/4, 3/8, and 1/2 NPT or BSP with calibration certificate(form ISO/IEC 17025 accredited laboratory) At least 1 year warranty certificate on service and parts and after-sales service	₱600,000.00
Multi-Purpose Electrical Calibrator	1 unit	0 to 1020 V, 0 to 20.5 A, 20.9 KW Power, Phase Control 0.01, frequency 25ppm. With calibration certificates.	0 to 1020 V, 0 to 20.5 A, 20.9 KW Power, Phase Control 0.01, frequency 25ppm. With calibration certificates (from ISO/IEC 17025 accredited laboratory if applicable) At least 1 year warranty certificate on service and parts and after-sales service	₱3,000,000.00
10-Liter Seraphin Test Measure	1 unit	type 300 stainless steel with repair kit, Carrying case and miniscus reader	type 300 stainless steel with repair kit, Carrying case and miniscus reader With calibration certificates (from ISO/IEC 17025 accredited laboratory if applicable) At least 1 year warranty certificate on service and parts and after-sales service	₱250,000.00
Liquid Bath	1 unit	Temp. range: -45 °C to 150 °C Stability: ±0.005°C at 25°C (water) Uniformity: ±0.007 °C at 25 °C (water) Display resolution: 0.01° or better Digital Setting Accuracy: ±1°C or better Digital Setting Accuracy: ±0.01°C or better Volume: 14-18 liters	Temp. range: -45 °C to 150 °C Stability: ±0.005°C at 25°C (water) Uniformity: ±0.007 °C at 25 °C (water) Display resolution: 0.01° or better Digital Setting Accuracy: ±1°C or better Digital Setting Accuracy: ±0.01°C or better Volume: 14-18 liters With calibration certificates (from ISO/IEC 17025 accredited laboratory if applicable) At least 1 year warranty certificate on service and parts and after-sales service	₱1,600,000.00
IR/Non Contact Thermometer Calibrator (Blackbody)	1 set	Temperature range: -15 °C to 120 °C with 1 unit precision IR calibrator with 1 high temp IR thermometer with IR gun holder	Temperature range: -15 °C to 120 °C with 1 unit precision IR calibrator with 1 high temp IR thermometer with IR gun holder with calibration certificate(form ISO/IEC 17025 accredited laboratory if applicable) At least 1 year warranty certificate on service and parts and after-sales service	₱1,200,000.00

For guidance and information of all concerned.


DECTA 1180 P. LIBONAO
BAC Chairperson
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A Supplemental / Bid Bulletin is a notice issued by the Procuring Entity to Eligible Bidders with respect to any clarifications or modifications in the Bidding Documents, including those affecting the technical specifications, procurement schedule, and other similar matters. It is prepared by the TWG, approved by the BAC, and publicized by the BAC Secretariat. It should be made available to all Prospective Bidders who have properly secured or purchased the Bidding Documents, not later than seven (7) calendar days before the deadline for the submission and receipts of bids.