

DEPARTMENT OF AGRICULTURE

Regional Field Office No. 5
San Agustin, Pili, Camarines Sur 4418



Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment for Improved Analysis and Upgrading of the Different Laboratories under ILD CY 2024 (Per lot basis)

08-GOODS-ILD-2024

ABC: ₱50,000,000.00

Sixth Edition

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project–Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC –Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related

construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



Masaganang Agrikultura,
Masunlad na Ekonomiya

Republic of the Philippines
REGIONAL FIELD OFFICE NO. 5
San Agustin, Pili, Camarines Sur

INVITATION TO BID FOR

Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment for Improved Analysis and Upgrading of the Different Laboratories under ILD CY 2024 (Per lot basis)

- The *Department of Agriculture Regional Field Office No. 5 (DA RFO 5)*, through the **National Expenditure Program (NEP) for CY 2024 ILD Fund** intends to apply the sum of **Fifty Million Pesos Only (Php50,000,000.00)** being the total ABC to payments under the contract for ITB No. **08-GOODS-ILD-2024**.

Bids received in excess of the ABC shall be automatically rejected at bid opening.
Partial Bid is allowed.

- The *Department of Agriculture Regional Field Office No. 5* now invites bids for the following:

Item No.	Description	Unit Cost	Location of the Project	Delivery of the Goods
	LOT 1			
1	<p>1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller</p> <p>1 unit Fully automated Kjeldahl Digestor, 20-placer with Scrubber System Temperature range: Ambient - 440°C Temperature setting repeatability: 1°C Temperature stability at 100°C: ± 2°C Temperature stability at 400°C: ± 1°C Heating time from 20 to 400°C at 230 V: ~40 min With over temperature protection Full control of scrubber and lift system Tubes/batch: 20 Tube size: 250 mL Power supply 200-240 V, 60 Hz Power consumption 2300 W Power supply (Scrubber): 200-240 V, 50-60Hz Power consumption (Scrubber) : 50 W Inclusions and Accessories: 1 pc. Exhaust Digestor / 1 pc. Lift System Standard accessory kit for digestor 1 pc. Safety Manual 3 PM kits for Digestor and Scrubber good for 3 years 3 bots. Digestion Catalyst 100 pcs. Digestion Tubes, straight, 250ml capacity 3 pcs. Tube rack for 20 digestion tubes, 250ml UPS with 15-30 mins back up time for digestion unit 2 sets Automatic Kjeldahl Distillator with the following performance specifications and features:</p>	4,380,000.00	DA RFO 5, San Agustin, Pili Cam. Sur	120 calendar days upon receipt of NTP

	<p>Analysis time: 3.5 minutes at 30 mg N (6.5 minutes at 200 mg N) Distillation capacity: ~40 mL/min at 230 V (at 100% steam addition) Measuring range: 0.1 – 210 mg N Reproducibility: 1% RSD (including the digestion step) Recovery: 99.5 – 100.5% at nitrogen levels between 1-200 mg N Colored touchscreen display Steam Addition for Equilibration Distillate Temperature monitor Automatic alkali addition Automatic dilution water addition Automatic receiver solution Addition Tube emptying/waste collection Power supply: 200-240 V, 50-60Hz Power consumption: 3000 W With standard accessory kit for Kjeldahl distillator including: Safety Manual 2 sets Tanks with level sensors for Waste, Receiver, Alkali and Water 2 sets PM kit for Kjeldahl Distillator 1 unit Digital Burette, 50ml capacity 1 unit UPS, 15-30 mins back up time with additional inclusion of 1 unit benchtop chiller with the following description and inclusions: Power supply: 120V, 60Hz Cooling capacity at 20°C: 1000W Max flow: 13L/min Working Temp Range: -20 °C to 40 °C Temp Stability: ± 1°C with 1 unit Step-down transformer Technical and hands on training on use and maintenance at manufacturer’s training facility for two (2) Training at site on operation and troubleshooting of equipment Technical support during analysis and method validation/ verification Minimum of 1 year warranty on parts and services and up to 2 years warranty on maintenance and services</p>			
2	<p>1 unit - Biosafety Cabinet Class II, Type A2 Biosafety Cabinet with 5KVA AVR Nominal Width: 4' Nominal Sash Opening: 8" (20 cm) Base Stand: Included Conforms to ADA, CE, NSF 49 Lighting: Ultraviolet, LED Electronically Commutated Motor (ECM) Intrinsically-safe negative pressure design Fully scannable 99.99+% supply and exhaust HEPA filters, 99.999% efficient ULPA filters available 10° angled, fully closing sash 1/4" tempered safety glass with counterbalanced Anti-racking, easy-to-lift mechanism Leak-tight stainless steel interior. Powder-coated steel exterior Removable towel catch located under work surface</p>	1,050,000.00		

	<p>Electronic security lock 8", 10", or 12" (20.3, 25.4, or 30.5 cm) working sash height Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, maintenance and services</p>			
3	<p>3 units - Analytical Balance With built-in application programs With exceptional monolithic weigh cell With standard internal, motorized calibration Weighing Capacity (g): 220g Readability: 0.0001g (0.1mg) Pan size (mm): 90 mm dia. Repeatability: 0.0001g (0.1mg) Linearity: 0.0002g (0.2mg) Response time (sec.): 2.5sec. Calibration: Internal Power Supply: 230V, 60Hz With AVR Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	190,000.00/ per unit		
4	<p>2 units - Laboratory Oven Capacity: 65L Type: Gravity Convection Controller type: Microprocessor control with vacuum fluorescent display Temperature: 50°C to 250°C Temp. Stability: ± 0.4°C No. of shelves: 2 Power supply: 230 V 50/60 Hz With 1 unit thermocouple, type K With 1 unit thermo hygrometer, traceable with clock Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	200,000.00/ per unit		
5	<p>2 units - Toploading Balance Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec Calibration: Internal With AVR On site training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	100,000.00/ per unit		
6	<p>1 unit - Water Purifier Water Purification System, Type 1 and Type 2 Flow rate: 1L/min (Type 1) Permeate Flow: 16L/hour (Type 2) Includes internal leak detector System alerts when filters need replacement comes complete with: 1 local RO System as pretreatment</p>	765,000.00		

	<p>2 sets additional pretreatment cartridges 1 set additional RO cartridge ultrapure polisher cartridge sterile 0.1 µm filter CO2 vent filter and sterile overflow with locally supplied pump and installation Includes all local installation costs Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, services and maintenance including consumables</p>			
7	<p>1 unit - Laboratory Mill for high and low fat/moisture content</p> <p>1 unit laboratory mill for high-fat, high moisture Higher than 15% moisture and 10% fat Up to 200ml sample (30-200g) Grinding rate/time: 2 to 10 seconds Grinding speed: Blade, 16,000 rpm With timer Safety: Microswitch, solenoid Power supply: 200-240 V, 50-60 Hz Power consumption: 600W With standard accessory kit With 1 unit PM kit and 1 unit AVR, 3kVA Additional Inclusion: 1 unit laboratory mill for low fat/low moisture samples up to 15% moisture and 10% fat High-volume air flow with minimal cross contamination Sample size: Up to 10 mm, large inlet up to 40mm Grinding rate/time: Appr. 4grams per second Grinding Speed: Impeller, 10,000 rpm Particle size: Fine and uniform grist Safety: Microswitch, motor brake Power Supply: 100-120 V, 60 Hz Power Consumption: 600 W With complete standard accessory kit With 1 pack glass sample bottle, 350ml, 4pcs/pack With 2 pcs. Screen 1.0 mm With 1 pc. Nickel plated impeller With 1 pc. Grinding ring for hard samples With 1 unit Stepdown Transformer, 2kVA With laboratory table for lab mills Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>	850,000.00		
8	<p>1 unit - Orbital Shaker Full-color touchscreen display Programmable up to 99 unique saved programs Retains parameters during a power failure Soft start feature eliminates sudden starts and stops Variable speed control from 15 to 525 rpm with a 1 inch orbit Maximum load capacity of 25kg (55lbs) Speed Control Accuracy: ±1 rpm Electrical Requirements: 100/240 V, 50/60 Hz Operating Temperature Range: 5°C to 60°C Certifications/Compliance: UL, cUL, CE comes complete with:</p>	340,000.00		

	<p>1 pc 12 x 14 universal platform 10 pcs clamp to hold 125ml E. flask 2 pcs adhesive mat 9x9 in Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>			
9	<p>1 unit - Laboratory Glassware Washer Materials: Lower spindle rack, stainless steel with up to 36 detachable large spindles up to 18 glassware holders up to 36 adjustable height clips Four leveling feet Aluminum-backed insulation and fiberglass thermal blanket Specifications: Full color touch screen display Up to 200 user-defined programs Clear and specific alarm displays Calibratable setpoints for temperature, fill volume, detergent dispensing Self-diagnostics and password protection Water temperature up to 93° C Synchronous drain pump rated at up to 4.2 gal/min (16 L/min) Purified water pump Forced air drying into the tank and through spindles programmable up to 240 minutes and from 38-80° C Detergent dispenser for powder or liquid detergent Operation at or below 62 decibels With glassware cart, stainless steel, approx. 36" x 20" with 4" diameter casters With complete mandatory accessories Includes all local installation costs Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>	1,525,000.00		
10	<p>2 units - Magnetic Stirrer with Heating Ceramic Plate Ceramic Digital Stirring hotplate Max. surface temp: 400°C Stir range: 50 to 1500 rpm Max Flask size: 6L with hot top warning system with automatic over-temp protection Easy to read LED Display 230V, 50/60Hz With Vortex mixer, Speed: 200-3000 rpm, speed and time display with 1 set spin bars (1, 1.5, 2.0 in) With 3 pcs. Spin bar retriever Minimum of 1 year warranty on parts Onsite training for the preventive maintenance and Proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	110,000.00 / per unit		
	TOTAL for LOT 1	10,300,000.00		

LOT 2				
11	1 unit - Fiber Analyzer 1 unit semi-automated fiber analyzer using Filter Bag Technology Sample size: 0.5 -1.0 gram Fiber Range: 0% - 100% Samples per batch: Up to 24 Samples per day: up to 96 (crude fiber) Operating Temp: 100 °C Power Requirements: 120-240V, 50/60Hz With the following inclusions: 3 packs Filter bags, 1000pcs per pack 6 pcs. Desiccant pouch 6 pcs. Acetone Resistant Marker 2 pcs. Filter bag holder 2 sets Agitator Packing set 2 pcs. Heat Sealer 1 unit AVR Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services	1,000,000.00		
12	1 unit - Fat Extractor with Benchtop Chiller 1 unit fully automated fat extractor using Filter Bag Technology Sample size: 1.0 - 3.0 grams Fat/Oil Range: 0% - 100% Samples per batch: Up to 15 Operation Time: 30 - 60 mins (Crude Fat Extraction) Samples per day: Up to 150 Operating Temp: 90 °C Power Requirements: 110-240 V, 50/60 Hz With the following inclusions: 1 pc. Heat sealer 1 pack Filter bags for Fat, 1000 pcs. per pack 2 pcs. Filter bag holder 3 pcs. Desiccant pouch 3 pcs. Acetone Marker 1 unit AVR 1 unit Benchtop Chiller with the following technical specs: Process Temp: 0 °C to 40 °C Temperature Stability: ± 0.5 °C Category: Recirculating coolers Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services	2,600,000.00		
TOTAL FOR LOT 2		3,600,000.00		
LOT 3				
13	1 unit - UV-VIS Spectrophotometer Use of long-life Xenon flash lamp Double-beam optical system Automatic 6-cell turret Technical Specifications: Optical System: Czerny - Turner mount Double beam Wavelength Range: 190 to 1100 nm	900,000.00		

	<p>Spectral band width: 1 nm Wavelength accuracy: ± 0.3 nm (at Xe 260.6, 484.3, 881.9 nm; Hg 253.7, 435.8, 546.1 nm) Wavelength repeatability: ±0.1 nm Photometric Accuracy: ±0.002 Abs (0-0.5 Abs); ±0.004 Abs (0.6-1.0 Abs) Photometric Repeatability: ±0.002 Abs (0- 1.0 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 8500 nm/min Response: Fast, Medium, Slow Baseline Stability: 0.0005 Abs/h (at 260 nm) Noise level (RMS): 0.0001 Abs (RMS 260nm, 0 Abs) Baseline flatness: ±0.0009 Abs (200 to 950nm) Light source (warranty period): Xenon flash lamp 5W (7 years) Cell Holder: Automatic 6-cell turret Detector: Silicone photodiode Measurement modes: Concentration measurement, Absorbance/Transmittance, Nucleic acid, wavelength scan, time scan, monitor measurement Wavelength calibration: Available. Sample Compartment: Automatic 6-cell turret Printer interface: Wi-Fi or USB Interface: LAN port: connected to a router or PC Remote controlled Power: 220V-240V Power consumption: 70 W or less Operating Temperature: 15-35 °C Inclusions: 12 units Quartz Cuvette 1 unit Instrument Desk (for instrument and PC) 1 unit AVR/UPS (3KVA) 1 unit LAN Cable MS Office Home & Business Software 1 unit Laptop with the following specs: Operating system: Windows 11 Processor: i7 Processor Memory: 8 GB; Storage: 512 GB Installation and on-site training 1 year warranty on parts and services</p>			
	TOTAL FOR LOT 3	900,000.00		
	LOT 4			
14	<p>1 unit - Muffle Furnace External Material: cold-rolled steel with anti-bacterial powder coating Internal material: high density ceramic fiber All stainless steel glory hole Dual ceramic inner chamber and hollow heat insulation Heating rate is about 60 °C per minute Automatic pressure door technology Micro digital screen controlled Over-temperature alarm and auto-stop Double-shell hollow thermal insulation Maximum Temp: 1200 °C Temp. Accuracy: ± 1°C; Capacity (L): 16</p>	440,000.00		

	Power supply: 220/380V, 50/60 Hz Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services			
15	2 units - Digital Burette With remote control panel With built-in magnetic stirrer support Volume Range: 0.01ml-99.99ml Volume Accuracy: R=0.2% CV=0.07% Operating Temp. Range= 10°C-30°C Control Type: External Control With Reagent bottle, 1L capacity per unit Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services	200,000.00/ per unit		
16	2 units - DISINFECTING AND HARMLESS ULTRAVIOLET LAMP wavelength:222nm 70nm output (100 beam angle) 8 5-305 V AC 50/60 Hz 17 w power, continuous duty cycle, motion activated ; power lead (PVC) 3x 0.75 nm (18 AWG); With Installation and training on operations and maintenance. warranty: 2 years	260,000.00/ per unit		
	TOTAL FOR LOT 4	1,360,000.00		
	LOT 5			
17	1 unit - ELISA Reader ELISA Strip Reader for Aflatoxin Analysis Microwell Reader, 12-well strip carrier With four filters: 405, 450, 492 and 630 nm filters Package Dimensions: 13.90 in x 18.80 in x 9.10 in Compact, stand-alone microstrip reader Touchscreen interface With built-in printer With complete mandatory accessories Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services	400,000.00		
	TOTAL FOR LOT 5	400,000.00		
	LOT 6			
18	1 unit - LABORATORY REFRIGERATOR Capacity 100L Temperature range 2 C to 8C 3 shelves; R600a refrigerant 1 glass door 50dB noise power consumption 1.65 kWh/24 hrs Internal Dimensions (W*D*H) : 385*356*737mm External Dimensions (W*D*H) : 505*510*875mm Packaging Dimensions (W*D*H) : 580*580*940mm;	250,000.00		

	<p>Net Weight : 35kg Gross Weight : 38kg Power Supply: 220V/50Hz; Installation and training on operations and maintenance. with AVR" and thermohygrometer warranty: 2 years</p>			
19	<p>1 unit - Atomic Absorption Spectrophotometer (with complete accessories) specs: Wave length range:185.0 to 900.0 nm Monochromator : Czerny-Turner mounting or equivalent Bandwidth : 0.1-2L nm minimum Detector : Photomultiplier tube or equivalent Optics : Optical double-beam or better Background correction method : BGC-SR · BGC-D2 (D2 lamp method) (185.0 to 900 nm) or better Number of HC lamps: · Minimum 6 lamps 2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement) or better Lamp mode: Emission, Non-BGC, BGC-D2, BGC-SR or equivalent Baseline Correction: Automatic correction of baseline drift by offset correction in peak height / peak area modes or equivalent Flame Burner head: Titanium or equivalent Nebulizer: Pt-Ir capillary, PTFE orifice, ceramic impact bead (capable of handling HF acid) or better Chamber: Engineering plastics or equivalent Flow rate control: Automatic fuel gas flow rate setting (0.1L/min step), manual support gas flow rate setting, automatic search of optimum gas flow rate or better</p> <p>Safety measures (Flame): Automatic extinction via flame vibration sensor Automatic gas leak check Automatic Air-N2O switching as C2H2 flow rate increases flame monitor Prevention of incorrect burner head use gas pressure monitor Drain tank level monitor Automatic flame extinction upon power outage or sudden power interruption Internal fan stop sensor or equivalent</p> <p>Furnace Heating Temperature range: Ambient to 3,000 °C or better</p> <p>Safety measures (Furnace): Cooling water flow rate monitor gas pressure monitor overcurrent protection unit</p>	5,200,000.00		

	<p>Furnace block check or equivalent</p> <p>Power Requirements: 220VAC ±5%, 7400 VA, 50/60 Hz or equivalent DIMENSIONS and WEIGHT: 230W : 560D X 506 H mm, 50Kg or equivalent</p> <p>Software Must be compatible with Microsoft operating system Windows 10 minimum Must display mean value, standard deviation and coefficient of variation and has an automatic exclusion of deviant values by setting SD and %RSD Should automatically check for proper functioning of lamp, detector, and background corrector before starting analysis Must be able to record the used lamp time (hours) and monitor lamp warming up-time</p> <p>Accessories Complete PC System: Windows 10; Processor i5, 8G RAM or better Continuous Ink printer Acetylene gas (tank), gas Lines and Regulator Argon gas (tank), gas Lines and Regulator Silent type Oil-Less Air Compressor Cooling water Circulator Dual Stage Festo Air Filter Pyrolytic Graphite Tube, 10pcs/Set High-density graphite tube, 10pcs/Set Hollow cathode lamps and standards; calcium, copper, cobalt, zinc, sodium, potassium, magnesium, manganese, arsenic, cadmium, iron, lead, mercury Exhaust system (Canopy Hood, Exhaust fan and Hood) UPS Multiple Outlet</p> <p>Other Accessories: Hydride Vapor Generator Unit, HVG-100 or equivalent Mercury Vaporizer or equivalent</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country Certificate of distributorship from the principal supplier</p>			
20	<p>2 units - Autoclave (Pressure Cooker Type) specs: Temperature Controller: Digital PID Controller Using Press: 0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm²) Pressure Gauge: Mechanical type 0 to 0.3 MPa</p>	361,500.00/ per unit		

	<p>Temperature Range: Max 130°C Sensor: Pt-100 Capacity: 100 L Heater: 5 kW Internal Material: Stainless Steel External Material: Steel Plate with Powder Safety Device Automatic reset function incoming power cut Buzzer on when set time arrived Electric leakage circuit breaker Over temperature protection device Safety relief valve Accessory Wire basket x 2 EA</p>			
21	<p>4 units - Showcase Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design; Double Glass Door; Fan-cooled system; Galvanized Inner Lining; Internal Lamp; Lighted Panel Drain Pan; Roller feet with locking mechanism; 6 adjustable coated wire shelves; 190 -210 W input power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR</p>	114,000.00/ per unit		
22	<p>1 unit - UV-Vis Spectrophotometer</p> <p>Wavelength Range: 190 to 1,100nm Spectral Bandwidth: 1nm or better Wavelength Accuracy: ± 0.3nm for entire range or equivalent Wavelength Repeatability: ± 0.025nm Wavelength scanning speed: 3000nm/min or better Stray light: <0.004% @ 220nm minimum <0.004% @ 340nm minimum <0.15% @ 198nm minimum Photometric system: Double beam optics or equivalent Photometric Range: Absorbance: -4 to 4abs or better Transmittance: 0% to 400% or better Noise level: <0.00001 Abs or equivalent Light Source: Halogen & deuterium lamp or equivalent Monochromator: Czerny-Turner mounting or equivalent Detector: Silicone photodiode Power Requirements: AC220 V, 50/60 Hz, 140 VA or equivalent Dimensions: W450 x D501 x H244 mm minimum Weight: 16.6 Kg minimum PC Compatibility: Can be operated as stand-alone or pc controlled Display: 24-bit color touch screen or better</p> <p>Operational Accessories; With Sipper Unit</p>	1,235,000.00		

	<p>Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country</p>			
	TOTAL FOR LOT 6	7,864,000.00		
	LOT 7			
23	<p>1 unit - AUTOMATED EXTRACTION MACHINE automated nucleic acid extraction, 100-240 VAC process 6-96 samples for multiple application, high extraction efficiency; sample throughput per run up to 1- 12-32 with 12-16 pin magnet head; 24-32 maximum sample load; 20-1000ul volume range; CVs5% difference between purification repeats; Heating/cooling 10 to 120 C , Temperature accuracy +-1C; 4-75C in RT elution strip; 8 W UV lamp; up to 16 hrs UV exposure time; Internal procedures 500 programs storage; fan exhaust system; with software memory device; USB computer interface; inclusion: DNA extraction kit (lysis soln, binding soln, wash 1 &2, elution buffer, magnetic beads, proteinase K); extraction kit consumable by single test by 8 ,16 -32 run, ASF TEST KIT, laptop, printer, UPS,AVR, table for the machine and laboratory chair and 1 unit 1.5 HP split type air-condition. With Installation and training on operations and maintenance. warranty:2years</p>	2,800,000.00		
	TOTAL FOR LOT 7	2,800,000.00		
	LOT 8			
24	<p>2 units - AUTOCLAVE/STEAM STERILIZER Chamber Capacity: 40- 54 Liters, Ø 320 x 676 mm Maximum temperature pressure: 140° C, 0.27MPa. Controller: Microprocessor controller, graphic display Temperature: 3 digits, PID control Timer: 2 digits hours, 2 digits minutes, down count (Temperature/Time integration system) Safety valve operation: 0.29 MPa Water test pressure: 0.58 MPa Material: Chamber & lid: Stainless Steel SUS304, shiny polished. Molded silicon rubber gasket (self-seal system) Outer panel: Steel with baked melamin finish.</p>	700,000.00/ per unit		

	<p>Top panel: Heat-resisting molded resin Power requirement (50/60Hz): AC220/230/240V, 1 phase, 12A Outer dimension (W x D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: Ø 300 x 300 x 2pcs FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years</p>			
	TOTAL FOR LOT 8	1,400,000.00		
	LOT 9			
25	<p>1 unit - ELISA Microplate Photometer High resolution touch screen touch screen , 6V, 10 W Photo detector, Interface user on board or PC control light source quartz halogen lamp speed 7s for 96 well plate, 13 s for 96- well, linear shaking R2>- 0.995 accuracy +- 1% (0 to 3 abs) or +-0.003Abs 8 position filter wheel: filter installed 405 nm, 450nm,492nm, 620nm, 630nm height 7 to 8.7 inc; 50-60 HZ; voltage 100/240 range with Incubation temperature range RT+4 C - 50 C; temp accuracy +- 0.5 C @ 35 C;, built in software, touch screen, external mouse; 3 x USB port, connecting computer, printer & USB drive with inclusion microplate washer (Washing heads 1X8 OR 1X12 HEADS) uninterrupted power supply, automatic voltage regulator</p>	800,000.00		
	TOTAL FOR LOT 9	800,000.00		
	LOT 10			
26	<p>1 unit - AIRBORN SURFACE DISINFECTION SYSTEM Portable disinfection nebulizer of airborne surface disinfection. Can be used in combination with ready to use 7.4% pure hydrogen peroxide disinfectant. 5.3 kg, powerful. Maximum volume treated 156 m3. Refill volume 1 liter. dimension 300 x 300x 300mm. device flow 25 ml/min With Installation and training on operations and maintenance. warranty: 2 years</p>	400,000.00		
	TOTAL FOR LOT 10	400,000.00		

	LOT 11			
27	<p>1 unit – Blender/Hemogenizer High performance Blender/Hemogenizer for small and standard sample preparation digital control and LCD display 2x 16 character alphanumeric display adjustable timer,(10 sec to 3 minute or continues) Processing 3 speed, low, medium, high; rapid crushing: only 15 to 30 seconds to homogenized sample. Blending capacity 80 to 400 ml bags, with patented smash effect avoiding jams and broken bags removable stainless steel paddles power supply 115 V+_ 10%/ 50-60 Hz/1 A or 230 V +_ 10%/ 50-60 Hz 0.5 A adjustable timer 10 to 3 min. or continuous Dimension W 400 mm x H 3330 mm, D 380 mm INCLUSION User manual, 1 power supply(UPS 1kVA), 1 pack of 50 sterile 400 ml blender bags, 1 waste tray, compliance certificate, 1-2 years warranty</p>	390,000.00		
	TOTAL FOR LOT 11	390,000.00		
	LOT 12			
28	<p>1 unit - DIGITAL INCUBATOR Dual convection for versatility of application: Temperature Range: 0 °C to 70°C; working temperature range 0 to +70 C; fan speed adjustable from 0 to 100%; Advanced digital timer for daily or weekly on / off cycles; Stainless steel interior (1.4301) is easy to clean and corrosion resistant; Temperature uniformity as good as ± 0.2 °C; temperature sensor DIN class A in 4 wire circuit Temperature stability at ± 0.1 °C Chamber Volume: 53 L; 4 maximum no of intervals; 80 kg loading chamber; fully insulated stainless steel door with 2 point locking (compression door lock) 1 stainless steel grid , electro polished , works calibration certificate +10 C and +37 C; with inner glass door; with table for the machine, With Installation and training on operations and maintenance. warranty: 2 years</p>	210,000.00		
29	<p>1 unit - DIGITAL MICROSCOPE WITH CAMERA, accessories and LAPTOP Binocular, integrated 5.0 MP CMOS color USB CAMERA, 2592 X 1044 PIXELS/ 7 FRAMES PER SECOND (2592 X 1944 PIXELS) 27 frames per second (1280 x 960 pixels) digital microscope Dynamic range 76 db signal/noise ratio 41 db. with USB cable and micrometer 1mm/100 calibration slide software compatible with windows 10 and higher both 32 & 64 bits configuration HWF 10x/20 mm eyepieces and quintuple nosepiece with 4/10/S40/S100x oil infinity corrected IOS objectives,</p>	200,000.00		

	131 x 152/197 mm stage with integrated mechanical 75 x 36mm rackless X-Y stage. 3 W NeoLED™ Köhler illumination and Integrated power supply. Supplied without rechargeable batteries. with 1 laptop, 10 years warranty			
30	1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination Double coaxial, low positioned coarse and fine adjustment w/ 180 graduations. Precision 1.1 um, 200um per rotation total travel range approximately 19 mm. warranty: 10 years	100,000.00		
31	1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination BioBlue EVO binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination	68,044.00		
	TOTAL FOR LOT 12	578,044.00		
	LOT 13			
32	1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type B1/B2 Cabinet, Dimensions:30(L) x 53(W) x 82(H)Inches; 4 feet (1.2 Meters) NSF/ANSI 49, Style of Cabinet Bench top/console w/base stand/storage cabinet, Cabinet Construction All welded stainless steel 16/18 GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal) Non-flammable Electro galvanizes steel exterior white oven baked antimicrobial powder coating finish stainless steel work zone tray ergonomically angled frameless and shatterproof tempered glass sliding sash Filter Ultra low Particulate Air with -99.99% Efficiency at 0.3 -01 microns , air volume 346 cmh inflow,764 cmh down flow ISO 14644 -1 Class 3 Air quality HEPEX Seal Electrical requirement 220-240 V AC Hz, single phase . nominal power consumption:308 W, maximum power/ current consumption 360 W/2A lamp intensity 118 LUx; microprocessor controller, soft keys for menu and cabinet function (blower, UV light, electrical outlet etc): with caster wheels, low noise emission of 60dBA (NSF/ ANSI 49; 57 dBA (EN12469);	616,646.00		

	<p>Neoprene, Spring-loaded, Fumigation ;4 feet (1. 2M); with support stand with caster wheels, UV lamp, automatic voltage regulator</p> <p>2 years warranty on parts and services</p> <p>Inclusion with 2 years certification and decontamination and 1 set of laboratory chair</p> <p>With Installation and training on operations and maintenance.</p>			
33	<p>1 unit - GENERAL PURPOSE OVEN 54 L chamber capacity, 220-240 VAC; 50/60 HZ 1 phase power supply.</p> <p>oven chamber 1.2 mm 18 gauge stainless steel grade 304 with 4B finish</p> <p>2 point door seal and eccentric hinge to ensure maximum gasket compression</p> <p>external dimension WDH: 550x527 x695 mm</p> <p>internal dimension WDH; 400 x 340 x400 mm</p> <p>temperature range + 75 C to 300 C</p> <p>temperature variation 70 C is +- 0.6 C</p> <p>validated and passed calibration, an ISO 17025 testing laboratory</p> <p>microprocessor PID control technology; Pre heat chamber Technology 4-zone heated air jacket</p> <p>Anti-microbial Powder coating; with Installation and training on operations and maintenance.</p> <p>with AVR</p> <p>Warranty: 2 years</p>	310,000.00		
	TOTAL FOR LOT 13	926,646.00		
	LOT 14			
34	<p>1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)</p> <p>Mass Spectrometer:</p> <p>Ionization sources: EI, Chemical Ionization must be provided as an option</p> <p>Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid source chamber removal and ionization mode change</p> <p>One-click complete system shutdown for any routine maintenance User changeable internal calibrant Source temperature limited to 250°C to avoid excess fragmentation while retaining high chromatographic performance</p> <p>EI Filaments: Dual long-lasting filaments</p> <p>Electron energy-Range 10-200 eV</p> <p>Pump down time: Can pump down cold, vented instrument to working pressure (3e-5 mBar) and get to temperatures (250°C source and 350°C transfer line) in 15 minutes</p> <p>Ion Source transfer optics: Innovative user-centred design and are only able to be assembled one way, reducing training time and errors in re-assembly"</p> <p>Mass Analyzer: Two high-resolution, stable quadrupole analyzers with pre-filters</p>	12,000,000.00		

	<p>Collision cell: Must use a travelling wave voltage for rapid, axial transport of ions through the device</p> <p>Detector: Must incorporate an off-axis dynolite photomultiplier detector</p> <p>Vacuum system: Must be air-cooled turbomolecular pump evacuating the source & analyser. An external, chilled water supply must not be required for the vacuum system</p> <p>Regulatory approval/marks: CE and NRTL</p> <p>Gas Chromatograph:</p> <p>Injector: Split/splitless</p> <p>Auto sampler: Liquid injection</p> <p>Sample Vial Capacity: 150</p> <p>Oven temperature: Ambient + 2 to 450 °C</p> <p>Oven ramps/plateaus: Supports 20 oven ramps and 21 plateaus</p> <p>Negative Ramps: Allowed</p> <p>Ramp rate: 120 °C/min (200 +V), 75 °C/min (120V)</p> <p>Flow control: Capillary flow technology</p> <p>Product ion confirmation (PIC) mode: MRM acquisition acts as an automatic trigger for the acquisition of product ion spectra</p> <p>Simultaneous full scan and MRM mode: An information rich acquisition approach that allows you to collect highly specific quantitative data for target analysis while providing NIST-searchable full scan spectra in parallel</p> <p>Mass range: 2-1250 m/z</p> <p>Scan Speed: 20,000 u/s</p> <p>Mass Stability: $\pm < 0.1$ u/24 hour period</p> <p>Linearity of response: The linearity of response relative to sample concentration for a specified compound is six orders of magnitude from the limit of detection</p> <p>MS to MS/MS switching time: 3 ms</p> <p>MRM acquisition rate: 500 MRM data points per second to 800 MRM data points per second</p> <p>Inter-channel cross talk: The inter-channel cross talk between two MRM transitions will be less than 0.001% (less than 10 ppm)</p> <p>Number of MRM channels: Up to 32,768 MRM channels(1024 functions, 32 channels per function) can be monitored in a single acquisition</p> <p>Mass Resolution: 0.4 u - 3.00 u (FWHM), or custom set-up</p> <p>MRM instrument Detection Limit (EI): The instrument has an Instrument Detection Limit (IDL) of less than 4 fg of octafluoronaphthalene from 8 consecutive injections</p> <p>MRM Sensitivity (EI): 1 μL of 10 fg/μL octafluoronaphthalene will give a chromatographic signal-to-noise greater than 1600:1 for the transition of m/z 272>222</p> <p>MRM Sensitivity (PCI): 1 μL of 100 fg/μL Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105</p> <p>Scanning Sensitivity (EI): 1 μL of 1 pg/μL of octafluoronaphthalene will give a chromatographic</p>			
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	<p>signal-to-noise greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550</p> <p>SIR sensitivity (NCI): 1 µL of 100 fg/µL octafluoronaphthalene will give a chromatographic signal-to-noise greater than 2000:1 for m/z 272 Weight: Must not exceed 135 Kg.</p> <p><u>Inclusions:</u> NIST Library - latest version, 1 license PESTICIDE ANALYSIS GC CONSUMABLES - 1 set DisQuE Pouch for 50mL CEN - 2 packs, 50pcs per pack DisQuE 15mL Tube/MgSO4/PSA - 2 packs, 50pcs per pack Oasis PRiME HLB Plus Short Cart. 50/box - 2 boxes GCMS compatible 12x32mm clear preslit combination vials - 5 boxes, 100pcs per box SPE Manifold with vacuum pump - 1pc Acetonitrile 4L/bot MS Grade - 5 bottles Hexane MS 4L/bot Grade - 2 bottles Ethyl Acetate MS 4L/bot - 2 bottles Methanol MS 4L/bot - 2 bottles Dichloromethane MS 4L/bot - 2 bottles Pesticide Standard mix - 1 set vortex mixer - 1 pc blender - 1 pc Centrifuge -1pc Sonicator -1 pc around 5 liters Plumbing for Gas lines Gas regulator for Helium and Argon Tanks Split type airconditioning Instrument table Argon tank UHP grade 5.0 at least 1 tank Helium tanks UHP grade 5.0 at least 3 tanks UPS and Transformer Lab chair Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, Local Training certificate will be provided</p>			
35	<p>1 unit - qPCR Machine</p> <p>Weight: 7 kg Operating noise: <40 dB(A) Electrical Voltage: 240 V (+/- 10%) Frequency: 50 - 60 Hz (+/- 10%) Power: 170 W Number of reactions: 32 Reaction Vessels: 0.1ml single tube and/or 8-tube strips Reaction volume: 10 - 100 µl (20 µl recommended) Temperature cycling system: Peltier-based heating & cooling from +37 to +99°C Heating rate: 5°C/s & Cooling Rate: 4°C/s Temperature uniformity: +/- 0.05°C (SD) Temperature accuracy: +/- 0.25°C Run Time: <50 min Fluorescence Excitation: 500 nm nm (blue LED) Fluorescence Detection: 120 optical channels from 510 to 750 nm (CMOS camera)</p>	1,895,000.00		

	<p>Supported Assays Formats: Intercalating dyes (e.g., SYBR Green I), Hydrolysis Probes, Molecular Beacons, Simple Probes, HybProbes Factory-Calibrated Dyes (at shipment): SYBR Green I / FAM / ResoLight; VIC / HEX / Yellow555; LC RED 610 / Texas Red; Cy5 Multiplexing Capabilities: Up to 7 targets</p> <p>Applications: Relative and Absolute Quantification Analysis, Melting Peak Analysis, Endpoint Genotyping Analysis, High Resolution Melting (HRM)</p> <p>Sensitivity: 1.1 fold discrimination, 9-log dynamic range, Single copy detection Connection options: LAN, Direct connection to computer (RJ45), PC-free (USB stick/flash drive controlled)</p> <p>Inclusions: 1. Absorbance plate reader with cuvette port</p> <p>Specifications: Detection Modes UV/vis absorbance spectra Measurement Modes Endpoint and kinetic Spectral scanning (absorbance) Well scanning Microplate Formats 6 to 1536-well plates, user-definable LVis Plate with 16 low-volume microspots (2 µL) Microplate Carrier Robot compatible Light Sources High energy xenon flash lamp Detectors CCD Spectrometer Wavelength Selection UV/vis absorbance spectrometer Full spectra or 8 distinct wavelengths in < 1 sec/well Spectral Range 220 - 1000 nm; wavelength precision: ≤ 0.5 nm Sensitivity Selectable spectral resolution: 1, 2, 5, and 10 nm OD range: 0 to 4 OD; photometric resolution: 0.001 OD Accuracy: < 1% at 2 OD Precision: < 0.5% at 1 OD and < 0.8% at 2 OD Linearity: ≤ 0.8% at 2.0 OD Read Times Full spectrum from 220 to 1000 nm in less than 1 sec/well Shaking Linear, orbital, and double-orbital with user-definable time and speed Purge Gas Vent</p> <p>System to inject an atmosphere or to pull a vacuum into the reader Incubation +3 °C above ambient up to 45 °C"</p>			
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	<p>The upper heating plate of the incubation chamber operates at 0.5 °C more than the lower plate. This prevents condensation build-up on the lid or sealer</p> <p>Software Multi-user Reader Control and MARS Data Analysis Software included FDA 21 CFR Part 11 compliant Dimensions Width: 36 cm, depth: 50 cm, height: 16 cm; weight: 10 kg; w/:</p> <p>Low-volume DNA and RNA nucleic acid quantification Low-volume protein quantification Endpoint and kinetic assays Absorbance spectral scanning of low volume samples</p> <p>2. Plant RNA/DNA Extraction kit 3. 96-Place PCR Work Up Rack and Lid, Fluorescent Assorted, 5racks/pack 4. 0.1 mL Individual Low-Profile Tubes , individual tubes, 1000 tubes /bag 5. Iso Freeze PCR Rack, Pink, 10 racks/case 6. 9 sets of Primers (Designed Primer for Xanthomonas oryzae, Rice Tungro Spherical Virus, Rice Tungro Bacilliform Virus, Erwinia chrysanthemi pv. Zeae, Ralstonia solanacearum, Erwinia papayae, Dickeya zea, Babuvirus-Banana bunchy top virus, Ampelovirus-Mealybug Wilt of Pineapple)</p> <p>7. Taq Mix 8. Mini Centrifuge, Specifications: Includes two rotors: (fixed angle) 8X1.5 to 2.0ml. tubes, Adapters for 0.5 ml. and 0.4 ml. tubes available, 8 x 4 positions of 0.2 ml. strip tubes, Power: 245 VAC, 50/60 Hz, Maximum Speed: 7200 rpm (under empty load), Relative Centrifuge Force (RCF)-2350 x g, Includes: Centrifuge Tubes (2.0ml.) , 2.0 ml. Microcentrifuge Tube, Sterile, 500pcs/bag</p>			
	TOTAL FOR LOT 14	13,895,000.00		
	LOT 15			
36	<p>1 unit - Stereo Zoom Microscopes</p> <p>Specs: Greenough zoom optical system, trinocular head, 35°inclined, 360°rotating, 100:0 (eyetubes), 50:50 (trinocular tube/right eyetube) optical split.</p> <p>Features: Trinocular head 35° rotating, Widefield eyepieces WF10X/23mm., Zoom ratio: 1:6.7, Magnification range 0.75X-5X, up to 320X, Base: Streamline plane base with Incident halogen light 12V/10W with intensity control, Transmitted halogen light 12V/10W with intensity control, Powersupply:100-240V, Pole type stand Inclusions: Attachable digital C-mount camera, Sensor: CMOS, Live Resolution: 2.0MP (1600x1200), Optical Calculation: 1/3", Output: MiniUSB, Focusable lens:</p>	180,000.00		

	12mm, 2 variable diameter eyepiece adapters, Macro tube for specimen's observation, with computer set.			
37	<p>1 unit - EC Meter</p> <p>Specifications: Measuring range: 0 to 200uS, 0 to 2,000uS/cm, 0 to 500mS/cm; Automatic range; TDS: 0 to 200mg/l, 0 to 2000mg/l, 0 to 20g/l, 0 to 500g/l; Salinity: 0 to 70 Temperature: -10 to 100C Resolution: 0.1uS / 1uS / 0.01mS / 0.1mS / 0.1C Temperature compensation: Automatic Calibration: Temperature offset, Single point, Automatic Data Storage: 4,000 entries with date, time, value 1 +2 and temperature Power: 220V, 60Hz; Includes: Stand; Conductivity Cell Conductivity testing solutions Warranty: One year on parts and service Installation and training on operations and maintenance With Certificate of Calibration With Certificate of Distributorship from Manufacturer</p>	71,160.00		
38	<p>1 unit - Fumehood (PERCHLORIC ACID)</p> <p>MOC, CRCA 18G Epoxy powder coated Stand, MS pipe, 18 G powder coated, Working table top MS powder coated sheet covered with PP sheet, Exhaust system, Motor Blower assembly covered with GI sheet</p> <p>Sash/ Door, Vertical folding type, Air velocity 0.5 m/s</p> <p>Noise Level, 65 dBA, Glass window-Two layer toughen glass, 5 mm thickness Adjustable height, Motor control, Make up air</p> <p>Air needed to replace the air exhausted from a room by the fume hood and other ventilation devices</p> <p>Face velocity The velocity of the air passing through the work opening of the fume hood measured in the plane of the sash. Measured in feet per minute (fpm), or liters per minute Electrical fittings, Electrical sockets and MCB switch, Illumination Fluorescent lamp or UV lamp, Optional accessories HEPA Filter Caster wheels Horizontal sash SS 314 / SS 316 MOC Temperature indicator Face Velocity Meter Airflow Indicator Audio / Visual alarm Power supply 220 / 230 V Inclusion: 2 units Digital Burette (50 ml capacity) w/ 1 liter reagent bottle 2 units thermocouple device 2 units thermohygrometer traceable w/clock 2 units lab. Cart, stainless steel (3 layers)</p>	3,000,000.00		

	<p>2 units lab. Desiccator, cabinet type (2 layers) 4 pcs flame resistant lab coat 4 pcs heat resistant gloves 1 unit A/C inverter (2 hp)</p>			
39	<p>2 units - Benchtop pH/mV meter</p> <p>Temperature compensation: Automatic Calibration points: 3 minimum With calibration records With calibration timer Display: LCD or equivalent pH range: -2.0 to 20.0 +/- 0.1pH / -2.00 to 20.00 +/- 0.01pH / -2.000 to 19.999 +/-0.005pH or better mV range: +/-1200.0 +/-0.3mV / +/- (2000 +/-1) mV or better Temperature range: -5C to 105C or better Reproducible results with auto read function or equivalent Power: Battery or Universal power supply Includes: - Universal power supply - pH electrode - Buffer solutions - Electrolyte solution - Installation and Commissioning - Certificate of Calibration - Warranty: One year on parts and service under normal use</p>	180,000.00/ per unit		
40	<p>1 unit - Toploading Balance</p> <p>Specs: Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia. Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec. Calibration: Internal with AVR</p>	82,000.00		
41	<p>1 unit - Analytical Balance,</p> <p>specs: Capacity: 120 g minimum Readability: 0.1 mg or equivalent Repeatability at max load: 0.1 mg or better Linearity, typical: 0.06 mg or better Display: LED touch or equivalent With built-in applications, 12 or better Calibration: fully automatic internal calibration and adjustment or equivalent Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning - Certificate of Calibration</p>	95,000.00		
42	<p>1 unit - pH 2700 Meter With pH Electrode</p> <p>ATC Probe</p>	180,000.00		

	<p>pH Electrode Refill Solution, 60 MlpH Measuring Range: - 2 – 20 pH Resolution: 0.1 / 0.01 / 0.001 pH Accuracy: ±0.02 mV Measuring Range (redox): ± 2000 mV Accuracy: 0.1 / 1 Ion Measuring Range: 0.001 - 19,999 ppm Temperature Measuring Range: -20 - 120°C Resolution: 0.1 Accuracy: ±0.5 °C Inclusion DHS Kit Stirrer pH electrode XS standard temperature probe NT55 S7. BNC 1 m cable colored pH buffer solution (pH 7 and pH 4) soft keypad electrodes arm Stirrer Forced Convection; With Installation and training on operations and maintenance. warranty: 2 years</p>			
	TOTAL FOR LOT 15	3,968,160.00		
	LOT 16			
43	<p>1 unit - Laboratory Drying Oven, Temperature range: ambient plus 5C to 300C or better High temperature accuracy or equivalent Natural convection Controller with LCD display or better Electromechanical control of the exhaust flap or equivalent Stackable With Class 2 integrated independent temperature safety device or equivalent With visual alarm With USB port for recording data or equivalent Volume: 112 Liters minimum External dimensions: WHD 700-720 x720- 734 x 590-610 mm Internal dimensions: WHD 500-520 x 520-540 x 430-440 mm With two chrome plated racks or equivalent Power: 220V, 60Hz Includes: AVR - Installation and Commissioning - Certificate of Calibration - Warranty: One year on parts and service under normal use</p>	139,250.00		
44	<p>1 unit - Reciprocating Horizontal Mechanical Shaker: Shaker Includes Plate 250mL x 23 each Flat form Dimension: 460W x 465D mm Dimension: 480W x 610D x 90H mm Speed Range: 15 to 300 rpm</p>	278,900.00		

Speed Stroke: Adjustable 25, 30, 35 mm orbit Electrical Supply: 220V, 50/60 Hz Included in this price: 1 unit LSI-1 OPTION - SPRING RACK INSTEAD OF FLASK HOLDER			
TOTAL FOR LOT 16	418,150.00		

Bidders should have completed, within *Two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

- Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

- Prospective Bidders may obtain further information from *DA RFO 5, BAC Secretariat Office, San Agustin, Pili, Camarines Sur* and inspect the Bidding Documents at the address given below during ***Mondays – Fridays, 8:00 AM to 5:00 PM except for Holidays, Saturdays and Sundays.***
- A complete set of Bidding Documents may be acquired by interested Bidders on ***November 13- December 04, 2023 (1:00PM)*** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of the following:

PARTICULARS	ABC	BID DOCS FEE
LOT 1	10,300,000.00	₱ 25,000.00
LOT 2	3,600,000.00	₱ 5,000.00
LOT 3	900,000.00	₱ 1,000.00
LOT 4	1,360,000.00	₱ 5,000.00
LOT 5	400,000.00	₱ 500.00
LOT 6	7,864,000.00	₱ 10,000.00
LOT 7	2,800,000.00	₱ 5,000.00
LOT 8	1,400,000.00	₱ 5,000.00
LOT 9	800,000.00	₱ 1,000.00
LOT 10	400,000.00	₱ 500.00
LOT 11	390,000.00	₱ 500.00
LOT 12	578,044.00	₱ 1,000.00
LOT 13	926,646.00	₱ 1,000.00
LOT 14	13,895,000.00	₱ 25,000.000

LOT 15	3,968,160.00	₱ 5,000.00
LOT 16	418,150.00	₱ 500.00

The Procuring Entity shall allow the bidder to present its proof of payment for the fees.

6. The **DA RFO 5** will hold a **Pre-Bid Conference** on **November 22, 2023 (10:00AM)** at **3rd Flr. Sta. Catalina Hall, Operations Bldg., DA RFO-5, San Agustin, Pili, Camarines Sur**, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before **December 04, 2023; (1:00PM)**. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **December 04, 2023; (1:30PM)** onwards at the given address below **3rd Flr. Sta. Catalina Hall, Operations Bldg., DA RFO-5, San Agustin, Pili, Camarines Sur**. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. In case of a tie Bid, the BAC will conduct the Guidelines on the Use of Non-Discretionary/Non-Discriminatory Selection criteria as Tie-Breaking Method thru DRAW LOTS in case of two or more Bidders have been post-qualified determined as the bidder having the lowest calculated and Responsive Bidder (LCRB) (GPPB Circular No. 06-2005).
11. The **DA RFO 5** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

BAC Secretariat Office
Department of Agriculture, Regional Field Office No. 5
San Agustin, Pili, Camarines Sur 4418
Email Address: bacrfo5@gmail.com

For downloading of Bidding Documents: www.dabicol.gov.ph

November 10, 2023, San Agustin, Pili, Camarines Sur

(Signed)
LORENZO L. ALVINA
Chief, Integrated Laboratory Division
BAC Chairperson

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Department of Agriculture Regional Field Office No. 5* wishes to receive Bids for the *Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment for improved analysis and Upgrading of the different laboratories under ILD CY 2024 (Per lot basis)* with identification number **08-GOODS-ILD-2024**.

The Procurement Project (referred to herein as “Project”) is composed of **Sixteen (16) lots**, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below *National Expenditure Program (NEP) for CY 2024 ILD Fund* in the amount of **Fifty Million Pesos (Php50,000,000.00)**.

2.2. The source of funding is

a. NGA, the National Expenditure Program (NEP)

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “P” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project. (B)

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be:

		Amount (Php)
Lot 1	at least fifty percent (50%)	5,150,000.00
Lot 2	at least fifty percent (50%)	1,800,000.00
Lot 3	at least fifty percent (50%)	450,000.00
Lot 4	at least fifty percent (50%)	680,000.00
Lot 5	at least fifty percent (50%)	200,000.00
Lot 6	at least fifty percent (50%)	3,932,000.00
Lot 7	at least fifty percent (50%)	1,400,000.00
Lot 8	at least fifty percent (50%)	700,000.00
Lot 9	at least fifty percent (50%)	400,000.00
Lot 10	at least fifty percent (50%)	200,000.00
Lot 11	at least fifty percent (50%)	195,000.00
Lot 12	at least fifty percent (50%)	289,022.00
Lot 13	at least fifty percent (50%)	463,323.00
Lot 14	at least fifty percent (50%)	6,947,500.00
Lot 15	at least fifty percent (50%)	1,984,080.00
Lot 16	at least fifty percent (50%)	209,075.00

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

The Procuring Entity has prescribed that Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address at **DA RFO 5, San Agustin, Pili, Camarines Sur** and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **Section I. Invitation to Bid**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB Clause 5.3** should have been completed within **TWO (2) YEARS** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in:

- a. Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

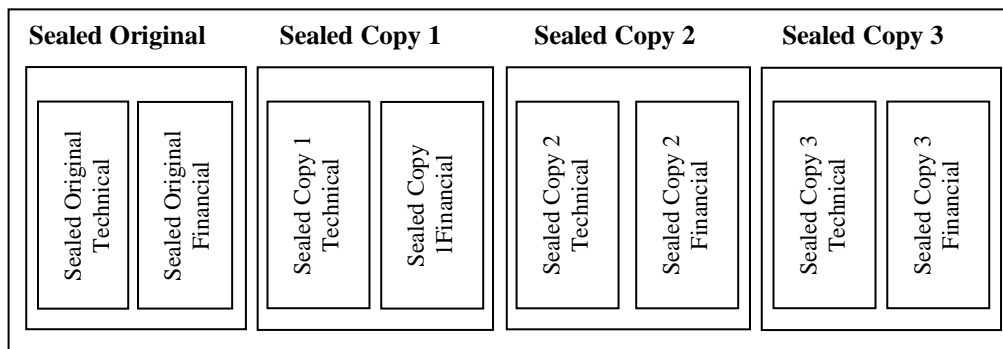
14.2. The Bid and bid security shall be valid until **April 2, 2024 (120 calendar days from the date of Opening)**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one (1) Original copy of the first and second component of its Bid. The Procuring entity is requesting an additional three (3) hard copies of the bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

Sealed Original, Copy 1, Copy 2& 3 in one (1) Single Envelope



All copies shall be marked Certified True Copy & signed by the bidder or its duly authorized representative.

Additional instructions: All copies must be marked with index/ear tabs or side-end tabs to identify the page components and shall be properly addressed to the BAC Chairperson.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **Section I. Invitation to Bid.**

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB.** The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated “*passed*,” using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case may be. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as **One Project having several items grouped into several lots, which shall be awarded as separate contracts per lot or one contract for several lots.**
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.2. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																						
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p style="margin-left: 40px;">a. Technical and Scientific Equipment</p> <p style="margin-left: 40px;">b. Completed within <i>Two (2) years</i> prior to the deadline for the submission and receipt of bids.</p>																					
7.1	No further instruction																					
12	The price of the Goods shall be quoted DDP DA RFO 5, SAN AGUSTIN, PILI, CAMARINES SUR or the applicable International Commercial Terms (INCOTERMS) for this Project.																					
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p style="margin-left: 40px;">a. The amount of not less than (2%) <i>Lot 1 - ₱206,000.00, Lot 2 - 72,000.00, Lot 3 - 18,000.00, Lot 4 - 27,200.00, Lot 5 - 8,000.00, Lot 6 - 157,280.00, Lot 7 - 56,000.00, Lot 8 - 28,000.00, Lot 9 - 16,000.00, Lot 10 - 8,000.00, Lot 11 - 7,800.00, Lot 12 - 11,560.88, Lot 13 - 18,532.92, Lot 14 - 277,900.00, Lot 15 - 79,363.20, Lot 16 - 8,363.000</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p style="margin-left: 40px;">b. The amount of not less than (5%) <i>Lot 1 - ₱515,000.00, Lot 2- 180,000.00, Lot 3 - 45,000.00, Lot 4 - 68,000.00, Lot 5 - 20,000.00, Lot 6 - 393,200.00, Lot 7 - 140,000.00, Lot 8 - 70,000.00, Lot 9 - 40,000.00, Lot 10 - 20,000.00, Lot 11 - 19,500.00, Lot 12 - 28,902.20, Lot 13- 46,332.30, Lot 14 - 694,750.00, Lot 15- 198,408.00, Lot 16- 20,907.50</i>, if bid security is in Surety Bond.</p>																					
19.3	<p>Partial bid is allowed.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 60%; text-align: center;">Description</th> <th style="width: 40%; text-align: center;">ABC (Php) (inclusive of VAT)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">LOT 1</td><td style="text-align: right;">10,300,000.00</td></tr> <tr><td style="text-align: center;">LOT 2</td><td style="text-align: right;">3,600,000.00</td></tr> <tr><td style="text-align: center;">LOT 3</td><td style="text-align: right;">900,000.00</td></tr> <tr><td style="text-align: center;">LOT 4</td><td style="text-align: right;">1,360,000.00</td></tr> <tr><td style="text-align: center;">LOT 5</td><td style="text-align: right;">400,000.00</td></tr> <tr><td style="text-align: center;">LOT 6</td><td style="text-align: right;">7,864,000.00</td></tr> <tr><td style="text-align: center;">LOT 7</td><td style="text-align: right;">2,800,000.00</td></tr> <tr><td style="text-align: center;">LOT 8</td><td style="text-align: right;">1,400,000.00</td></tr> <tr><td style="text-align: center;">LOT 9</td><td style="text-align: right;">800,000.00</td></tr> </tbody> </table>		Description	ABC (Php) (inclusive of VAT)	LOT 1	10,300,000.00	LOT 2	3,600,000.00	LOT 3	900,000.00	LOT 4	1,360,000.00	LOT 5	400,000.00	LOT 6	7,864,000.00	LOT 7	2,800,000.00	LOT 8	1,400,000.00	LOT 9	800,000.00
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	LOT 14	13,895,000.00
	LOT 15	3,968,160.00
	LOT 16	418,150.00
	GRAND TOTAL	P50,000,000.00
20.2	<p>The bidder shall submit:</p> <ul style="list-style-type: none"> a. Certificate of Availability of Stocks b. Certificate of Authority to Supply and to bid from the source c. Certification as to dealership or distributorship d. Warranty Certificate e. Latest Income Tax Return f. Latest VAT Payment g. Performance Evaluation Report (at least very satisfactory) of Single Largest Completed Contract (SLCC) duly signed by the end-user with the approval of the Director or RTD for government contract and with the approval of the highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proceed and Inspection and Acceptance (COA Form) (if government), For Private Contract: Contract/PO and Delivery Receipt with Proof of Acceptance] i. Other requirements peculiar to the procurement project under consideration 	
21.2	<i>No further instruction</i>	

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered to Department of Agriculture RFO 5, San Agustin, Pili, Camarines Sur. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is Ms. Cristina E. Borja, Property Officer</p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. Training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods <p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services</p> <p>Spare Parts –</p> <ol style="list-style-type: none"> a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and b. in the event of termination of production of the spare parts: <ol style="list-style-type: none"> i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and

- ii. Following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the costs thereof are included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods

Spare parts or components shall be supplied as promptly as possible

Packaging –

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity

Name of the Supplier

Contract Description

Final Destination

Gross weight

Any special lifting instructions

Any special handling instructions

Any relevant HAZCHEM classifications

Transportation –

Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.

Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.

	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p>
	<p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p>
	<p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p>The terms of payment shall be in full payment after completion of the delivery duly inspected by the inspector and by Focal Person or its representative.</p>
4	<p>The inspections that will be conducted are based on the minimum specifications required as indicated in the Technical Specifications.</p>

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Weeks/Months
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 1	10,300,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 2	3,600,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 3	900,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 4	1,360,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 5	400,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 6	7,864,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 7	2,800,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 8	1,400,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 9	800,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 10	400,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 11	390,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 12	578,044.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 13	926,646.00	120 calendar days upon receipt of NTP

	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 14	13,895,000.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 15	3,968,160.00	120 calendar days upon receipt of NTP
	Supply, Delivery, Testing & Installation of Various Technical and Scientific Equipment	LOT 16	418,150.00	120 calendar days upon receipt of NTP

Place of Delivery:

DA RFO 5, ILD Building, San Agustin, Pili Cam. Sur

I hereby commit to comply and deliver all the above requirements in accordance with above stated schedule.

Signature over Printed Name of Authorized Representative: _____

Date: _____

Section VII. Technical Specifications

Technical Specifications

ITEM	Specifications	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
	LOT 1	
1	<p>1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller</p> <p>1 unit Fully automated Kjeldahl Digestor, 20-placer with Scrubber System Temperature range: Ambient - 440°C Temperature setting repeatability: 1°C Temperature stability at 100°C: ± 2°C Temperature stability at 400°C: ± 1°C Heating time from 20 to 400°C at 230 V: ~40 min With over temperature protection Full control of scrubber and lift system Tubes/batch: 20 Tube size: 250 mL</p>	

	<p>Power supply 200-240 V, 60 Hz Power consumption 2300 W Power supply (Scrubber): 200-240 V, 50-60Hz Power consumption (Scrubber) : 50 W Inclusions and Accessories: 1 pc. Exhaust Digester / 1 pc. Lift System Standard accessory kit for digester 1 pc. Safety Manual 3 PM kits for Digester and Scrubber good for 3 years 3 bots. Digestion Catalyst 100 pcs. Digestion Tubes, straight, 250ml capacity 3 pcs. Tube rack for 20 digestion tubes, 250ml UPS with 15-30 mins back up time for digestion unit 2 sets Automatic Kjeldahl Distillator with the following performance specifications and features: Analysis time: 3.5 minutes at 30 mg N (6.5 minutes at 200 mg N) Distillation capacity: ~40 mL/min at 230 V (at 100% steam addition) Measuring range: 0.1 – 210 mg N Reproducibility: 1% RSD (including the digestion step) Recovery: 99.5 – 100.5% at nitrogen levels between 1-200 mg N Colored touchscreen display Steam Addition for Equilibration Distillate Temperature monitor Automatic alkali addition Automatic dilution water addition Automatic receiver solution Addition Tube emptying/waste collection Power supply: 200-240 V, 50-60Hz Power consumption: 3000 W With standard accessory kit for Kjeldahl distillator including: Safety Manual 2 sets Tanks with level sensors for Waste, Receiver, Alkali and Water 2 sets PM kit for Kjeldahl Distillator 1 unit Digital Burette, 50ml capacity 1 unit UPS, 15-30 mins back up time with additional inclusion of 1 unit benchtop chiller with the following description and inclusions: Power supply: 120V, 60Hz Cooling capacity at 20°C: 1000W Max flow: 13L/min Working Temp Range: -20 °C to 40 °C Temp Stability: ± 1°C with 1 unit Step-down transformer Technical and hands on training on use and maintenance at manufacturer's training facility for two (2) Training at site on operation and troubleshooting of equipment Technical support during analysis and method validation/ verification Minimum of 1 year warranty on parts and services and up to 2 years warranty on maintenance and services</p>	
2	<p>1 unit - Biosafety Cabinet Class II, Type A2 Biosafety Cabinet with 5KVA AVR Nominal Width: 4' Nominal Sash Opening: 8" (20 cm) Base Stand: Included Conforms to ADA, CE, NSF 49 Lighting: Ultraviolet, LED Electronically Commutated Motor (ECM) Intrinsically-safe negative pressure design</p>	

	<p>Fully scannable 99.99+% supply and exhaust HEPA filters, 99.999% efficient ULPA filters available 10° angled, fully closing sash 1/4" tempered safety glass with counterbalanced Anti-racking, easy-to-lift mechanism Leak-tight stainless steel interior. Powder-coated steel exterior Removable towel catch located under work surface Electronic security lock 8", 10", or 12" (20.3, 25.4, or 30.5 cm) working sash height Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, maintenance and services</p>	
3	<p>3 units - Analytical Balance With built-in application programs With exceptional monolithic weigh cell With standard internal, motorized calibration Weighing Capacity (g): 220g Readability: 0.0001g (0.1mg) Pan size (mm): 90 mm dia. Repeatability: 0.0001g (0.1mg) Linearity: 0.0002g (0.2mg) Response time (sec.): 2.5sec. Calibration: Internal Power Supply: 230V, 60Hz With AVR Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
4	<p>2 units - Laboratory Oven Capacity: 65L Type: Gravity Convection Controller type: Microprocessor control with vacuum fluorescent display Temperature: 50°C to 250°C Temp. Stability: ± 0.4°C No. of shelves: 2 Power supply: 230 V 50/60 Hz With 1 unit thermocouple, type K With 1 unit thermo hygrometer, traceable with clock Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
5	<p>2 units - Toploading Balance Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec Calibration: Internal With AVR On site training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
6	<p>1 unit - Water Purifier Water Purification System, Type 1 and Type 2 Flow rate: 1L/min (Type 1) Permeate Flow: 16L/hour (Type 2) Includes internal leak detector System alerts when filters need replacement comes complete with: 1 local RO System as pretreatment 2 sets additional pretreatment cartridges</p>	

	<p>1 set additional RO cartridge ultrapure polisher cartridge sterile 0.1 µm filter CO2 vent filter and sterile overflow with locally supplied pump and installation Includes all local installation costs Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, services and maintenance including consumables</p>	
7	<p>1 unit - Laboratory Mill for high and low fat/moisture content</p> <p>1 unit laboratory mill for high-fat, high moisture Higher than 15% moisture and 10% fat Up to 200ml sample (30-200g) Grinding rate/time: 2 to 10 seconds Grinding speed: Blade, 16,000 rpm With timer Safety: Microswitch, solenoid Power supply: 200-240 V, 50-60 Hz Power consumption: 600W With standard accessory kit With 1 unit PM kit and 1 unit AVR, 3kVA Additional Inclusion: 1 unit laboratory mill for low fat/low moisture samples up to 15% moisture and 10% fat High-volume air flow with minimal cross contamination Sample size: Up to 10 mm, large inlet up to 40mm Grinding rate/time: Appr. 4grams per second Grinding Speed: Impeller, 10,000 rpm Particle size: Fine and uniform grist Safety: Microswitch, motor brake Power Supply: 100-120 V, 60 Hz Power Consumption: 600 W With complete standard accessory kit With 1 pack glass sample bottle, 350ml, 4pcs/pack With 2 pcs. Screen 1.0 mm With 1 pc. Nickel plated impeller With 1 pc. Grinding ring for hard samples With 1 unit Stepdown Transformer, 2kVA With laboratory table for lab mills Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>	
8	<p>1 unit - Orbital Shaker Full-color touchscreen display Programmable up to 99 unique saved programs Retains parameters during a power failure Soft start feature eliminates sudden starts and stops Variable speed control from 15 to 525 rpm with a 1 inch orbit Maximum load capacity of 25kg (55lbs) Speed Control Accuracy: ±1 rpm Electrical Requirements: 100/240 V, 50/60 Hz Operating Temperature Range: 5°C to 60°C Certifications/Compliance: UL, cUL, CE comes complete with: 1 pc 12 x 14 universal platform 10 pcs clamp to hold 125ml E. flask 2 pcs adhesive mat 9x9 in Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>	

9	<p>1 unit - Laboratory Glassware Washer</p> <p>Materials:</p> <p>Lower spindle rack, stainless steel with up to 36 detachable large spindles up to 18 glassware holders up to 36 adjustable height clips Four leveling feet Aluminum-backed insulation and fiberglass thermal blanket</p> <p>Specifications:</p> <p>Full color touch screen display Up to 200 user-defined programs Clear and specific alarm displays Calibratable setpoints for temperature, fill volume, detergent dispensing Self-diagnostics and password protection Water temperature up to 93° C Synchronous drain pump rated at up to 4.2 gal/min (16 L/min) Purified water pump Forced air drying into the tank and through spindles programmable up to 240 minutes and from 38-80° C Detergent dispenser for powder or liquid detergent Operation at or below 62 decibels With glassware cart, stainless steel, approx. 36" x 20" with 4" diameter casters With complete mandatory accessories Includes all local installation costs Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>	
10	<p>2 units - Magnetic Stirrer with Heating Ceramic Plate</p> <p>Ceramic Digital Stirring hotplate Max. surface temp: 400°C Stir range: 50 to 1500 rpm Max Flask size: 6L with hot top warning system with automatic over-temp protection Easy to read LED Display 230V, 50/60Hz With Vortex mixer, Speed: 200-3000 rpm, speed and time display with 1 set spin bars (1, 1.5, 2.0 in) With 3 pcs. Spin bar retriever Minimum of 1 year warranty on parts Onsite training for the preventive maintenance and Proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
	LOT 2	
11	<p>1 unit - Fiber Analyzer</p> <p>1 unit semi-automated fiber analyzer using Filter Bag Technology</p> <p>Sample size: 0.5 -1.0 gram Fiber Range: 0% - 100% Samples per batch: Up to 24 Samples per day: up to 96 (crude fiber) Operating Temp: 100 °C Power Requirements: 120-240V, 50/60Hz With the following inclusions: 3 packs Filter bags, 1000pcs per pack</p>	

	<p>6 pcs. Desiccant pouch 6 pcs. Acetone Resistant Marker 2 pcs. Filter bag holder 2 sets Agitator Packing set 2 pcs. Heat Sealer 1 unit AVR Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>	
12	<p>1 unit - Fat Extractor with Benchtop Chiller 1 unit fully automated fat extractor using Filter Bag Technology Sample size: 1.0 - 3.0 grams Fat/Oil Range: 0% - 100% Samples per batch: Up to 15 Operation Time: 30 - 60 mins (Crude Fat Extraction) Samples per day: Up to 150 Operating Temp: 90 °C Power Requirements: 110-240 V, 50/60 Hz With the following inclusions: 1 pc. Heat sealer 1 pack Filter bags for Fat, 1000 pcs. per pack 2 pcs. Filter bag holder 3 pcs. Desiccant pouch 3 pcs. Acetone Marker 1 unit AVR 1 unit Benchtop Chiller with the following technical specs: Process Temp: 0 °C to 40 °C Temperature Stability: ± 0.5 °C Category: Recirculating coolers Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>	
	LOT 3	
13	<p>1 unit - UV-VIS Spectrophotometer Use of long-life Xenon flash lamp Double-beam optical system Automatic 6-cell turret Technical Specifications: Optical System: Czerny - Turner mount Double beam Wavelength Range: 190 to 1100 nm Spectral band width: 1 nm Wavelength accuracy: ± 0.3 nm (at Xe 260.6, 484.3, 881.9 nm; Hg 253.7, 435.8, 546.1 nm) Wavelength repeatability: ±0.1 nm Photometric Accuracy: ±0.002 Abs (0-0.5 Abs); ±0.004 Abs (0.6-1.0 Abs) Photometric Repeatability: ±0.002 Abs (0- 1.0 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 8500 nm/min Response: Fast, Medium, Slow Baseline Stability: 0.0005 Abs/h (at 260 nm) Noise level (RMS): 0.0001 Abs (RMS 260nm, 0 Abs) Baseline flatness: ±0.0009 Abs (200 to 950nm) Light source (warranty period): Xenon flash lamp 5W (7 years) Cell Holder: Automatic 6-cell turret</p>	

	<p>Detector: Silicone photodiode Measurement modes: Concentration measurement, Absorbance/Transmittance, Nucleic acid, wavelength scan, time scan, monitor measurement Wavelength calibration: Available. Sample Compartment: Automatic 6-cell turret Printer interface: Wi-Fi or USB Interface: LAN port: connected to a router or PC Remote controlled Power: 220V-240V Power consumption: 70 W or less Operating Temperature: 15-35 °C Inclusions: 12 units Quartz Cuvette 1 unit Instrument Desk (for instrument and PC) 1 unit AVR/UPS (3KVA) 1 unit LAN Cable MS Office Home & Business Software 1 unit Laptop with the following specs: Operating system: Windows 11 Processor: i7 Processor Memory: 8 GB; Storage: 512 GB Installation and on-site training 1 year warranty on parts and services</p>	
	LOT 4	
14	<p>1 unit - Muffle Furnace External Material: cold-rolled steel with anti-bacterial powder coating Internal material: high density ceramic fiber All stainless steel glory hole Dual ceramic inner chamber and hollow heat insulation Heating rate is about 60 °C per minute Automatic pressure door technology Micro digital screen controlled Over-temperature alarm and auto-stop Double-shell hollow thermal insulation Maximum Temp: 1200 °C Temp. Accuracy: ± 1°C; Capacity (L): 16 Power supply: 220/380V, 50/60 Hz Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
15	<p>2 units - Digital Burette With remote control panel With built-in magnetic stirrer support Volume Range: 0.01ml-99.99ml Volume Accuracy: R=0.2% CV=0.07% Operating Temp. Range= 10°C-30°C Control Type: External Control With Reagent bottle, 1L capacity per unit Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
16	<p>2 units - DISINFECTING AND HARMLESS ULTRAVIOLET LAMP wavelength:222nm 70nm output (100 beam angle) 8 5-305 V AC 50/60 Hz 17 w power, continuous duty cycle, motion activated ; power lead (PVC) 3x 0.75 nm (18 AWG);</p>	

	With Installation and training on operations and maintenance. warranty: 2 years	
	LOT 5	
17	<p>1 unit - ELISA Reader ELISA Strip Reader for Aflatoxin Analysis Microwell Reader, 12-well strip carrier With four filters: 405, 450, 492 and 630 nm filters Package Dimensions: 13.90 in x 18.80 in x 9.10 in Compact, stand-alone microstrip reader Touchscreen interface With built-in printer With complete mandatory accessories Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>	
	LOT 6	
18	<p>1 unit - LABORATORY REFRIGERATOR Capacity 100L Temperature range 2 C to 8C 3 shelves; R600a refrigerant 1 glass door 50dB noise power consumption 1.65 kWh/24 hrs Internal Dimensions (W*D*H) : 385*356*737mm External Dimensions (W*D*H) : 505*510*875mm Packaging Dimensions (W*D*H) : 580*580*940mm; Net Weight : 35kg Gross Weight : 38kg Power Supply: 220V/50Hz; Installation and training on operations and maintenance. with AVR" and thermohygrometer warranty: 2 years</p>	
19	<p>1 unit - Atomic Absorption Spectrophotometer (with complete accessories) specs: Wavelength range:185.0 to 900.0 nm Monochromator : Czerny-Turner mounting or equivalent Bandwidth : 0.1-2L nm minimum Detector : Photomultiplier tube or equivalent Optics : Optical double-beam or better Background correction method : BGC-SR · BGC-D2 (D2 lamp method) (185.0 to 900 nm) or better Number of HC lamps : · Minumum 6 lamps 2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement) or better Lamp mode: Emission, Non-BGC, BGC-D2, BGC-SR or equivalent Baseline Correction: Automatic correction of baseline drift by offset correction in peak height / peak area modes or equivalent Flame Burner head: Titanium or equivalent Nebulizer: Pt-Ir capillary, PTFE orifice, ceramic impact bead</p>	

<p>(capable of handling HF acid) or better Chamber: Engineering plastics or equivalent Flow rate control: Automatic fuel gas flow rate setting (0.1L/min step), manual support gas flow rate setting, automatic search of optimum gas flow rate or better</p> <p>Safety measures (Flame): Automatic extinction via flame vibration sensor Automatic gas leak check Automatic Air-N₂O switching as C₂H₂ flow rate increases flame monitor Prevention of incorrect burner head use gas pressure monitor Drain tank level monitor Automatic flame extinction upon power outage or sudden power interruption Internal fan stop sensor or equivalent</p> <p>Furnace Heating Temperature range: Ambient to 3,000 °C or better</p> <p>Safety measures (Furnace): Cooling water flow rate monitor gas pressure monitor overcurrent protection unit Furnace block check or equivalent</p> <p>Power Requirements: 220VAC ±5%, 7400 VA, 50/60 Hz or equivalent DIMENSIONS and WEIGHT: 230W : 560D X 506 H mm, 50Kg or equivalent</p> <p>Software Must be compatible with Microsoft operating system Windows 10 minimum Must display mean value, standard deviation and coefficient of variation and has an automatic exclusion of deviant values by setting SD and %RSD Should automatically check for proper functioning of lamp, detector, and background corrector before starting analysis Must be able to record the used lamp time (hours) and monitor lamp warming up-time</p> <p>Accessories Complete PC System: Windows 10; Processor i5, 8G RAM or better Continuous Ink printer Acetylene gas (tank), gas Lines and Regulator Argon gas (tank), gas Lines and Regulator Silent type Oil-Less Air Compressor Cooling water Circulator Dual Stage Festo Air Filter Pyrolytic Graphite Tube, 10pcs/Set High-density graphite tube, 10pcs/Set Hollow cathode lamps and standards;</p>	
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	<p>calcium, copper, cobalt, zinc, sodium, potassium, magnesium, manganese, arsenic, cadmium, iron, lead, mercury Exhaust system (Canopy Hood, Exhaust fan and Hood) UPS Multiple Outlet</p> <p>Other Accessories: Hydride Vapor Generator Unit, HVG-100 or equivalent Mercury Vaporizer or equivalent</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country Certificate of distributorship from the principal supplier</p>	
20	<p>2 units - Autoclave (Pressure Cooker Type) specs: Temperature Controller: Digital PID Controller Using Press: 0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm²) Pressure Gauge: Mechanical type 0 to 0.3 MPa Temperature Range: Max 130°C Sensor: Pt-100 Capacity: 100 L Heater: 5 kW Internal Material: Stainless Steel External Material: Steel Plate with Powder Safety Device Automatic reset function incoming power cut Buzzer on when set time arrived Electric leakage circuit breaker Over temperature protection device Safety relief valve Accessory Wire basket x 2 EA</p>	
21	<p>4 units - Showcase Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design; Double Glass Door; Fan-cooled system; Galvanized Inner Lining; Internal Lamp; Lighted Panel Drain Pan; Roller feet with locking mechanism; 6 adjustable coated wire shelves; 190 -210 W input power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR</p>	
22	<p>1 unit - UV-Vis Spectrophotometer</p> <p>Wavelength Range: 190 to 1,100nm Spectral Bandwidth: 1nm or better Wavelength Accuracy: ± 0.3nm for entire range or equivalent Wavelength Repeatability: ± 0.025nm</p>	

	<p>Wavelength scanning speed: 3000nm/min or better Stray light: <0.004% @ 220nm minimum <0.004% @ 340nm minimum <0.15% @ 198nm minimum Photometric system: Double beam optics or equivalent Photometric Range: Absorbance: -4 to 4abs or better Transmittance: 0% to 400% or better Noise level: <0.00001 Abs or equivalent Light Source: Halogen & deuterium lamp or equivalent Monochromater: Czerny-Turner mounting or equivalent Detector: Silicone photodiode Power Requirements: AC220 V, 50/60 Hz, 140 VA or equivalent Dimensions: W450 x D501 x H244 mm minimum Weight: 16.6 Kg minimum PC Compatibility: Can be operated as stand-alone or pc controlled Display: 24-bit color touch screen or better</p> <p>Operational Accessories; With Sipper Unit Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country</p>	
	LOT 7	
23	<p>1 unit - AUTOMATED EXTRACTION MACHINE automated nucleic acid extraction, 100-240 VACprocess 6-96 samples for multiple application, high extraction efficiency; sample throughput per run up to 1- 12-32 with 12-16 pin magnet head, 24-32 maximum sample load; 20-1000ul volume range; CVs5% difference between purification repeats; Heating/cooling 10 to 120 C , Temperature accuracy +-1C; 4-75C in RT elution strip; 8 W UV lamp; up to 16 hrs UV exposure time; Internal procedures 500 programs storage; fan exhaust system; with software memory device; USB computer interface; inclusion: DNA extraction kit (lysis soln, binding soln, wash 1 &2, elution buffer, magnetic beads, proteinase K); extraction kit consumable by single test by 8 ,16 -32 run, ASF TEST KIT, laptop, printer, UPS,AVR, table for the machine and laboratory chair and 1 unit 1.5 HP split type air-condition. With Installation and training on operations and maintenance.</p>	

	warranty:2years	
	LOT 8	
24	<p>2 units - AUTOCLAVE/STEAM STERILIZER Chamber Capacity: 40- 54 Liters, Ø 320 x 676 mm Maximum temperature pressure: 140° C, 0.27MPa. Controller: Microprocessor controller, graphic display Temperature: 3 digits, PID control Timer: 2 digits hours, 2 digits minutes, down count (Temperature/Time integration system) Safety valve operation: 0.29 MPa Water test pressure: 0.58 MPa Material: Chamber & lid: Stainless Steel SUS304, shiny polished. Molded silicon rubber gasket (self-seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat-resisting molded resin Power requirement (50/60Hz): AC220/230/240V, 1 phase, 12A Outer dimension (W x D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: Ø 300 x 300 x 2pcs FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years</p>	
	LOT 9	
25	<p>1 unit - ELISA Microplate Photometer High resolution touch screen touch screen , 6V, 10 W Photo detector, Interface user on board or PC control light source quartz halogen lamp speed 7s for 96 well plate, 13 s for 96- well, linear shaking R2>- 0.995 accuracy +- 1% (0 to 3 abs) or +-0.003Abs 8 position filter wheel: filter installed 405 nm, 450nm,492nm, 620nm, 630nm height 7 to 8.7 inc; 50-60 HZ; voltage 100/240 range with Incubation temperature range RT+4 C - 50 C; temp accuracy +- 0.5 C @ 35 C;, built in software, touch screen, external mouse; 3 x USB port, connecting computer, printer &USB drive with inclusion microplate washer (Washing heads 1X8 OR 1X12 HEADS) uninterrupted power supply, automatic voltage regulator</p>	

	LOT 10	
26	<p>1 unit - AIRBORN SURFACE DISINFECTION SYSTEM Portable disinfection nebulizer of airborne surface disinfection. Can be used in combination with ready to use 7.4% pure hydrogen peroxide disinfectant. 5.3 kg, powerful. Maximum volume treated 156 m3. Refill volume 1 liter. dimension 300 x 300x 300mm. device flow 25 ml/min With Installation and training on operations and maintenance. warranty: 2 years</p>	
	LOT 11	
27	<p>1 unit - Blender/Hemogenizer High performance Blender/Hemogenizer for small and standard sample preparation digital control and LCD display 2x 16 character alphanumeric display adjustable timer,(10 sec to 3 minute or continues) Processing 3 speed, low, medium, high; rapid crushing: only 15 to 30 seconds to homogenized sample. Blending capacity 80 to 400 ml bags, with patented smash effect avoiding jams and broken bags removable stainless steel paddles power supply 115 V+ _ 10%/ 50-60 Hz/1 A or 230 V +_ 10%/ 50-60 Hz 0.5 A adjustable timer 10 to 3 min. or continuous Dimension W 400 mm x H 3330 mm, D 380 mm INCLUSION User manual, 1 power supply(UPS 1kVA), 1 pack of 50 sterile 400 ml blender bags, 1 waste tray, compliance certificate, 1-2 years warranty</p>	
	LOT 12	
28	<p>1 unit - DIGITAL INCUBATOR Dual convection for versatility of application: Temperature Range: 0 °C to 70°C; working temperature range 0 to +70 C; fan speed adjustable from 0 to 100%; Advanced digital timer for daily or weekly on / off cycles; Stainless steel interior (1.4301) is easy to clean and corrosion resistant; Temperature uniformity as good as ± 0.2 °C; temperature sensor DIN class A in 4 wire circuit Temperature stability at ± 0.1 °C Chamber Volume: 53 L; 4 maximum no of intervals; 80 kg loading chamber; fully insulated stainless steel door with 2 point locking (compression door lock) 1 stainless steel grid , electro polished , works calibration certificate +10 C and +37 C; with inner glass door; with table for the machine, With Installation and training on operations and maintenance. warranty: 2 years</p>	

29	<p>1 unit - DIGITAL MICROSCOPE WITH CAMERA, accessories and LAPTOP</p> <p>Binocular, integrated 5.0 MP CMOS color USB CAMERA, 2592 X 1044 PIXELS/ 7 FRAMES PER SECOND (2592 X 1944 PIXELS) 27 frames per second (1280 x 960 pixels) digital microscope Dynamic range 76 db signal/noise ratio 41 db. with USB cable and micrometer 1mm/100 calibration slide software compatible with windows 10 and higher both 32 & 64 bits configuration</p> <p>HWF 10x/20 mm eyepieces and quintuple nosepiece with 4/10/S40/S100x oil infinity corrected IOS objectives, 131 x 152/197 mm stage with integrated mechanical 75 x 36mm rackless X-Y stage. 3 W NeoLEDTM Köhler illumination and Integrated power supply. Supplied without rechargeable batteries. with 1 laptop, 10 years warranty</p>	
30	<p>1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination Double coaxial, low positioned coarse and fine adjustment w/ 180 graduations. Precision 1.1 um, 200um per rotation total travel range approximately 19 mm. warranty: 10 years</p>	
31	<p>1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLEDTM cordless Köhler illumination BioBlue EVO binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination</p>	
LOT 13		
32	<p>1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type B1/B2 Cabinet, Dimensions:30(L) x 53(W) x 82(H)Inches; 4 feet (1.2 Meters)</p> <p>NSF/ANSI 49, Style of Cabinet Bench top/console w/base stand/storage cabinet, Cabinet Construction All welded stainless steel 16/18 GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal) Non-flammable Electro galvanizes steel exterior white oven baked antimicrobial powder coating finish stainless steel work zone tray ergonomically angled frameless and shatterproof tempered glass sliding sash Filter Ultra low Particulate Air with -99.99% Efficiency at 0.3 -01 microns , air volume 346 cmh inflow,764 cmh down flow ISO 14644 -1 Class 3 Air quality</p>	

	<p>HEPEX Seal Electrical requirement 220-240 V AC Hz, single phase</p> <p>nominal power consumption:308 W, maximum power/ current consumption 360 W/2A</p> <p>lamp intensity 118 LUX; microprocessor controller, soft keys for menu and cabinet function (blower, UV light, electrical outlet etc): with caster wheels, low noise emission of 60dBA (NSF/ ANSI 49; 57 dBA (EN12469);</p> <p>Neoprene, Spring-loaded, Fumigation ;4 feet (1. 2M); with support stand with caster wheels, UV lamp, automatic voltage regulator</p> <p>2 years warranty on parts and services</p> <p>Inclusion with 2 years certification and decontamination and 1 set of laboratory chair</p> <p>With Installation and training on operations and maintenance.</p>	
33	<p>1 unit - GENERAL PURPOSE OVEN 54 L chamber capacity, 220-240 VAC; 50/60 HZ 1 phase power supply.</p> <p>oven chamber 1.2 mm 18 gauge stainless steel grade 304 with 4B finish</p> <p>2 point door seal and eccentric hinge to ensure maximum gasket compression</p> <p>external dimension WDH: 550x527 x695 mm</p> <p>internal dimension WDH; 400 x 340 x400 mm</p> <p>temperature range + 75 C to 300 C</p> <p>temperature variation 70 C is +- 0.6 C</p> <p>validated and passed calibration, an ISO 17025 testing laboratory microprocessor PID control technology; Pre heat chamber Technology 4-zone heated air jacket</p> <p>Anti-microbial Powder coating; with Installation and training on operations and maintenance.</p> <p>with AVR</p> <p>Warranty: 2 years</p>	
	LOT 14	
34	<p>1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)</p> <p>Mass Spectrometer:</p> <p>Ionization sources: EI, Chemical Ionization must be provided as an option</p> <p>Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid source chamber removal and ionization mode change One-click complete system shutdown for any routine maintenance User changeable internal calibrant Source temperature limited to 250°C to avoid excess fragmentation while retaining high chromatographic performance</p> <p>EI Filaments: Dual long-lasting filaments</p> <p>Electron energy-Range 10-200 eV</p> <p>Pump down time: Can pump down cold, vented instrument to working pressure (3e-5 mBar) and get to temperatures (250°C source and 350°C transfer line) in 15 minutes</p> <p>Ion Source transfer optics: Innovative user - centered design and are only able to be assembled one way, reducing training time and errors in re-assembly"</p>	

	<p>Mass Analyzer: Two high-resolution, stable quadrupole analyzers with pre-filters Collision cell: Must use a travelling wave voltage for rapid, axial transport of ions through the device</p> <p>Detector: Must incorporate an off-axis dynolite photomultiplier detector Vacuum system: Must be air-cooled turbomolecular pump evacuating the source & analyser. An external, chilled water supply must not be required for the vacuum system Regulatory approval/marks: CE and NRTL</p> <p>Gas Chromatograph: Injector: Split/splitless Auto sampler: Liquid injection Sample Vial Capacity: 150 Oven temperature: Ambient + 2 to 450 °C Oven ramps/plateaus: Supports 20 oven ramps and 21 plateaus Negative Ramps: Allowed Ramp rate: 120 °C/min (200 +V), 75 °C/min (120V) Flow control: Capillary flow technology Product ion confirmation (PIC) mode: MRM acquisition acts as an automatic trigger for the acquisition of product ion spectra Simultaneous full scan and MRM mode: An information rich acquisition approach that allows you to collect highly specific quantitative data for target analysis while providing NIST-searchable full scan spectra in parallel Mass range: 2-1250 m/z Scan Speed: 20,000 u/s Mass Stability: $\pm < 0.1$ u/24 hour period</p> <p>Linearity of response: The linearity of response relative to sample concentration for a specified compound is six orders of magnitude from the limit of detection MS to MS/MS switching time: 3 ms MRM acquisition rate: 500 MRM data points per second to 800 MRM data points per second Inter-channel cross talk: The inter-channel cross talk between two MRM transitions will be less than 0.001% (less than 10 ppm) Number of MRM channels: Up to 32,768 MRM channels(1024 functions, 32 channels per function) can be monitored in a single acquisition Mass Resolution: 0.4 u - 3.00 u (FWHM), or custom set-up MRM instrument Detection Limit (EI): The instrument has an Instrument Detection Limit (IDL) of less than 4 fg of octafluoronaphthalene from 8 consecutive injections MRM Sensitivity (EI): 1 μL of 10 fg/μL octafluoronaphthalene will give a chromatographic signal-to-noise greater than 1600:1 for the transition of m/z 272>222 MRM Sensitivity (PCI): 1 μL of 100 fg/μL Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105</p> <p>Scanning Sensitivity (EI): 1 μL of 1 pg/μL of octafluoronaphthalene will give a chromatographic signal-to-noise greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550</p> <p>SIR sensitivity (NCI): 1 μL of 100 fg/μL octafluoronaphthalene will give a chromatographic signal-to-noise greater than 2000:1 for m/z 272 Weight: Must not exceed 135 Kg.</p>	
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	<p><u>Inclusions:</u> NIST Library - latest version, 1 license PESTICIDE ANALYSIS GC CONSUMABLES - 1 set DisQuE Pouch for 50mL CEN - 2 packs, 50pcs per pack DisQuE 15mL Tube/MgSO4/PSA - 2 packs, 50pcs per pack Oasis PRiME HLB Plus Short Cart. 50/box - 2 boxes GCMS compatible 12x32mm clear preslit combination vials - 5 boxes, 100pcs per box SPE Manifold with vacuum pump - 1pc Acetonitrile 4L/bot MS Grade - 5 bottles Hexane MS 4L/bot Grade - 2 bottles Ethyl Acetate MS 4L/bot - 2 bottles Methanol MS 4L/bot - 2 bottles Dichloromethane MS 4L/bot - 2 bottles Pesticide Standard mix - 1 set vortex mixer - 1 pc blender - 1 pc Centrifuge -1pc Sonicator -1 pc around 5 liters Plumbing for Gas lines Gas regulator for Helium and Argon Tanks Split type arconditioning Instrument table Argon tank UHP grade 5.0 at least 1 tank Helium tanks UHP grade 5.0 at least 3 tanks UPS and Transformer Lab chair Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, Local Training certificate will be provided</p>	
35	<p>1 unit - qPCR Machine</p> <p>Weight: 7 kg Operating noise: <40 dB(A) Electrical Voltage: 240 V (+/- 10%) Frequency: 50 - 60 Hz (+/- 10%) Power: 170 W Number of reactions: 32 Reaction Vessels: 0.1ml single tube and/or 8-tube strips Reaction volume: 10 - 100 µl (20 µl recommended) Temperature cycling system: Peltier-based heating & cooling from +37 to +99°C Heating rate: 5°C/s & Cooling Rate: 4°C/s Temperature uniformity: +/- 0.05°C (SD) Temperature accuracy: +/- 0.25°C Run Time: <50 min Fluorescence Excitation: 500 nm nm (blue LED) Fluorescence Detection: 120 optical channels from 510 to 750 nm (CMOS camera) Supported Assays Formats: Intercalating dyes (e.g.,SYBR Green I), Hydrolysis Probes, Molecular Beacons, SimpleProbes, HybProbes Factory-Calibrated Dyes (at shipment): SYBR Green I / FAM / ResoLight; VIC / HEX / Yellow555; LC RED 610 / Texas Red; Cy5 Multiplexing Capabilities: Up to 7 targets</p> <p>Applications: Relative and Absolute Quantification Analysis, Melting Peak Analysis, Endpoint Genotyping Analysis, High Resolution Melting (HRM)</p>	

	<p>Sensitivity: 1.1 fold discrimination, 9-log dynamic range, Single copy detection Connection options: LAN, Direct connection to computer (RJ45), PC-free (USB stick/flash drive controlled)</p> <p><u>Inclusions:</u> 1. Absorbance plate reader with cuvette port</p> <p>Specifications: Detection Modes UV/vis absorbance spectra Measurement Modes Endpoint and kinetic Spectral scanning (absorbance) Well scanning Microplate Formats 6 to 1536-well plates, user-definable LVis Plate with 16 low-volume microspots (2 µL) Microplate Carrier Robot compatible Light Sources High energy xenon flash lamp Detectors CCD Spectrometer Wavelength Selection UV/vis absorbance spectrometer Full spectra or 8 distinct wavelengths in < 1 sec/well Spectral Range 220 - 1000 nm; wavelength precision: ≤ 0.5 nm Sensitivity Selectable spectral resolution: 1, 2, 5, and 10 nm OD range: 0 to 4 OD; photometric resolution: 0.001 OD Accuracy: < 1% at 2 OD Precision: < 0.5% at 1 OD and < 0.8% at 2 OD Linearity: ≤ 0.8% at 2.0 OD Read Times Full spectrum from 220 to 1000 nm in less than 1 sec/well Shaking Linear, orbital, and double-orbital with user-definable time and speed Purge Gas Vent</p> <p>System to inject an atmosphere or to pull a vacuum into the reader Incubation +3 °C above ambient up to 45 °C"</p> <p>The upper heating plate of the incubation chamber operates at 0.5 °C more than the lower plate. This prevents condensation build-up on the lid or sealer</p> <p>Software Multi-user Reader Control and MARS Data Analysis Software included FDA 21 CFR Part 11 compliant Dimensions Width: 36 cm, depth: 50 cm, height: 16 cm; weight: 10 kg; w/: Low-volume DNA and RNA nucleic acid quantification Low-volume protein quantification Endpoint and kinetic assays Absorbance spectral scanning of low volume samples</p> <p>2. Plant RNA/DNA Extraction kit</p>	
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	<p>3. 96-Place PCR Work Up Rack and Lid, Fluorescent Assorted, 5racks/pack</p> <p>4. 0.1 mL Individual Low-Profile Tubes , individual tubes, 1000 tubes /bag</p> <p>5. IsoFreeze PCR Rack, Pink, 10 racks/case</p> <p>6. 9 sets of Primers (Designed Primer for Xanthomonas oryzae, Rice Tungro Spherical Virus, Rice Tungro Bacilliform Virus, Erwinia chrysanthemi pv. Zeae, Ralstonia solanacearum, Erwinia papayae, Dickeya zeae, Babuvirus-Banana bunchy top virus, Ampelovirus-Mealybug Wilt of Pineapple)</p> <p>7. Taq Mix</p> <p>8. Mini Centrifuge, Specifications: Includes two rotors: (fixed angle) 8X1.5 to 2.0ml. tubes, Adapters for 0.5 ml. and 0.4 ml. tubes available, 8 x 4 positions of 0.2 ml. strip tubes, Power: 245 VAC, 50/60 Hz, Maximum Speed: 7200 rpm (under empty load), Relative Centrifuge Force (RCF)-2350 x g., Includes: Centrifuge Tubes (2.0ml.) , 2.0 ml. Microcentrifuge Tube, Sterile, 500pcs/bag</p>	
	LOT 15	
36	<p>1 unit - Stereo Zoom Microscopes</p> <p>Specs: Greenough zoom optical system, trinocular head, 35°inclined, 360°rotating, 100:0 (eyetubes), 50:50 (trinocular tube/right eyetube) optical split.</p> <p>Features: Trinocular head 35° rotating, Widefield eyepieces WF10X/23mm., Zoom ratio: 1:6.7, Magnification range 0.75X-5X, up to 320X, Base: Streamline plane base with Incident halogen light 12V/10W with intensity control, Transmitted halogen light 12V/10W with intensity control, Powersupply:100-240V, Pole type stand</p> <p>Inclusions: Attachable digital C-mount camera, Sensor: CMOS, Live Resolution: 2.0MP (1600x1200), Optical Calculation: 1/3", Output: MiniUSB, Focusable lens: 12mm, 2 variable diameter eyepiece adapters, Macro tube for specimen's observation, with computer set.</p>	
37	<p>1 unit - EC Meter</p> <p>Specifications: Measuring range: 0 to 200uS, 0 to 2,000uS/cm, 0 to 500mS/cm;</p> <p>Automatic range; TDS: 0 to 200mg/l, 0 to 2000mg/l, 0 to 20g/l, 0 to 500g/l;</p> <p>Salinity: 0 to 70</p> <p>Temperature: -10 to 100C</p> <p>Resolution: 0.1uS / 1uS / 0.01mS / 0.1mS / 0.1C</p> <p>Temperature compensation: Automatic</p> <p>Calibration: Temperature offset, Single point, Automatic</p> <p>Data Storage: 4,000 entries with date, time, calue 1 +2 and temperature</p> <p>Power: 220V, 60Hz; Includes: Stand; Conductivity Cell</p> <p>Conductivity testing solutions</p> <p>Warranty: One year on parts and service</p> <p>Installation and training on operations and maintenance</p> <p>With Certificate of Calibration</p> <p>With Certificate of Distributorship from Manufacturer</p>	

38	<p>1 unit - Fumehood (PERCHLORIC ACID)</p> <p>MOC, CRCA 18G Epoxy powder coated Stand, MS pipe, 18 G powder coated, Working table top MS powder coated sheet covered with PP sheet, Exhaust system, Motor Blower assembly covered with GI sheet</p> <p>Sash/ Door, Vertical folding type, Air velocity 0.5 m/s</p> <p>Noise Level, 65 dBA, Glass window-Two layer toughen glass, 5 mm thickness Adjustable height, Motor control, Make up air</p> <p>Air needed to replace the air exhausted from a room by the fume hood and other ventilation devices</p> <p>Face velocity The velocity of the air passing through the work opening of the fume hood measured in the plane of the sash. Measured in feet per minute (fpm), or liters per minute Electrical fittings, Electrical sockets and MCB switch, Illumination Fluorescent lamp or UV lamp, Optional accessories HEPA Filter Caster wheels Horizontal sash SS 314 / SS 316 MOC Temperature indicator Face Velocity Meter Airflow Indicator Audio / Visual alarm Power supply 220 / 230 V Inclusions: 2 units Digital Burette (50 ml capacity) w/ 1 liter reagent bottle 2 units thermocouple device 2 units thermohygrometer traceable w/clock 2 units lab. Cart, stainless steel (3 layers) 2 units lab. Desiccator, cabinet type (2 layers) 4 pcs flame resistant lab coat 4 pcs heat resistant gloves 1 unit A/C inverter (2 hp)</p>	
39	<p>2 units - Benchtop pH/mV meter</p> <p>Temperature compensation: Automatic Calibration points: 3 minimum With calibration records With calibration timer Display: LCD or equivalent pH range: -2.0 to 20.0 +/- 0.1pH / -2.00 to 20.00 +/- 0.01pH / -2.000 to 19.999 +/-0.005pH or better mV range: +/-1200.0 +/-0.3mV / +/- (2000 +/-1) mV or better Temperature range: -5C to 105C or better Reproducible results with auto read function or equivalent Power: Battery or Universal power supply Includes: - Universal power supply - pH electrode - Buffer solutions - Electrolyte solution - Installation and Commissioning - Certificate of Calibration - Warranty: One year on parts and service under normal use</p>	

40	<p>1 unit - Toploading Balance</p> <p>Specs: Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia. Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec. Calibration: Internal with AVR</p>	
41	<p>1 unit - Analytical Balance,</p> <p>specs: Capacity: 120 g minimum Readability: 0.1 mg or equivalent Repeatability at max load: 0.1 mg or better Linearity, typical: 0.06 mg or better Display: LED touch or equivalent With built-in applications, 12 or better Calibration: fully automatic internal calibration and adjustment or equivalent Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning - Certificate of Calibration</p>	
42	<p>1 unit - pH 2700 Meter With pH Electrode</p> <p>ATC Probe pH Electrode Refill Solution, 60 MlpH Measuring Range: -2 - 20 pH Resolution: 0.1 / 0.01 / 0.001 pH Accuracy: ±0.02 mV Measuring Range (redox): ± 2000 mV Accuracy: 0.1 / 1 Ion Measuring Range: 0.001 - 19,999 ppm Temperature Measuring Range: -20 - 120°C Resolution: 0.1 Accuracy: ±0.5 °C Inclusion DHS Kit Stirrer pH electrode XS standard temperature probe NT55 S7. BNC 1 m cable colored pH buffer solution (pH 7 and pH 4) soft keypad electrodes arm Stirrer Forced Convection; With Installation and training on operations and maintenance. warranty: 2 years</p>	
	LOT 16	
43	<p>1 unit - Laboratory Drying Oven,</p> <p>Temperature range: ambient plus 5C to 300C or better High temperature accuracy or equivalent Natural convection Controller with LCD display or better</p>	

	<p>Electromechanical control of the exhaust flap or equivalent Stackable With Class 2 integrated independent temperature safety device or equivalent With visual alarm With USB port for recording data or equivalent Volume: 112 Liters minimum External dimensions: WHD 700-720 x 720- 734 x 590-610 mm Internal dimensions: WHD 500-520 x 520-540 x 430-440 mm With two chrome plated racks or equivalent Power: 220V, 60Hz Includes: AVR - Installation and Commissioning - Certificate of Calibration - Warranty: One year on parts and service under normal use</p>	
44	<p>1 unit - Reciprocating Horizontal Mechanical Shaker: Shaker</p> <p>Includes Plate 250mL x 23 each Flat form Dimension: 460W x 465D mm Dimension: 480W x 610D x 90H mm Speed Range: 15 to 300 rpm Speed Stroke: Adjustable 25, 30, 35 mm orbit Electrical Supply: 220V, 50/60 Hz Included in this price: 1 unit LSI-1 OPTION - SPRING RACK INSTEAD OF FLASK HOLDER</p>	
	<p>a. Certificate of Availability of Stocks b. Certificate of Authority to Supply and to bid from the source c. Certification as to dealership or distributorship d. Warranty Certificate e. Latest Income Tax Return f. Latest VAT Payment g. Performance Evaluation Report (at least very satisfactory) of Single Largest Completed Contract (SLCC) duly signed by the end-user with the approval of the Director or RTD for government contract and with the approval of the highest-ranking official for private contract h. Attachment of SLCC</p>	
<p>*Bidder/s may attach the above mentioned <u>documents</u> but not be a ground for disqualification during the bid opening.</p>		

I hereby commit to comply and deliver all the above requirements in accordance with above technical specifications.

Signature over Printed Name of Authorized Representative _____

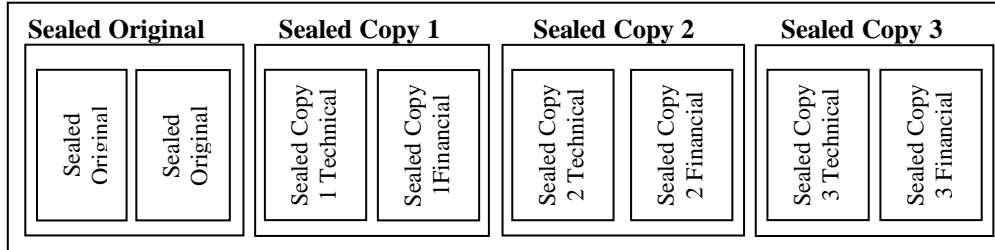
Date: _____

***Section VIII. Checklist of Technical and
Financial Documents***

Checklist of Technical and Financial Documents

Each Bidder shall submit one (1) Original copy of the first and second component of its Bid. The Procuring entity is requesting an additional three (3) hard copies of the bid.

Sealed Original, Copy 1, Copy 2& 3 in one (1) Single Envelope



All copies shall be marked Certified True Copy & signed by the bidder or its duly authorized representative.

Additional instructions: All copies must be marked with index/ear tabs or side-end tabs to identify the page components and shall be properly addressed to the **BAC Chairperson**.

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

Technical Documents

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; **and**
- (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- (i) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (j) Original duly signed Omnibus Sworn Statement (OSS); **and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of

Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (k) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC);
or
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

- (l) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;
or
duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

Other documentary requirements under RA No. 9184 (as applicable)

- (m) *[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (n) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

II. FINANCIAL COMPONENT ENVELOPE

- (a) Original of duly signed and accomplished Financial Bid Form; **and**
- (b) Original of duly signed and accomplished Price Schedule(s).

Section IX. BIDDING FORMS

BID FORM

Date : _____
Project Identification No. : _____

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform]* *[description of the Goods]* in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

[Insert this paragraph if Foreign-Assisted Project with the Development Partner:

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount	Purpose of Commission or gratuity
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(if none, state "None")]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

GPPB Resolution No. 16-2020, dated 16 September 2020

Price Schedule for Goods Offered from Abroad
[shall be submitted with the Bid if bidder is offering goods from Abroad]

For Goods Offered from Abroad

Name of Bidder _____ Project ID No. _____ Page ___ of ___

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Price Schedule for Goods Offered from Within the Philippines
[shall be submitted with the Bid if bidder is offering goods from within the Philippines]

For Goods Offered from Within the Philippines

Name of Bidder _____ Project ID No. _____ Page ___ of ___

1	2	3	4	5	6	7	8	9	10
Item No.	Description	Country of Origin	Quantity	Unit Price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and Other taxes payable if contract is awarded per item	Cost of Incidental Services, if applicable, per item	Total Price per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)
	LOT 1								
1	<p>1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller</p> <p>1 unit Fully automated Kjeldahl Digestor, 20-placer with Scrubber System Temperature range: Ambient - 440°C Temperature setting repeatability: 1°C Temperature stability at 100°C: ± 2°C Temperature stability at 400°C: ± 1°C Heating time from 20 to 400°C at 230 V: ~40 min With over temperature protection Full control of scrubber and lift system Tubes/batch: 20 Tube size: 250 mL Power supply 200-240 V, 60 Hz Power consumption 2300 W Power supply (Scrubber): 200-240 V, 50-60Hz Power consumption (Scrubber) : 50 W Inclusions and Accessories:</p>		1 unit						

<p>1 pc. Exhaust Digestor / 1 pc. Lift System Standard accessory kit for digester 1 pc. Safety Manual 3 PM kits for Digestor and Scrubber good for 3 years 3 bots. Digestion Catalyst 100 pcs. Digestion Tubes, straight, 250ml capacity 3 pcs. Tube rack for 20 digestion tubes, 250ml UPS with 15-30 mins back up time for digestion unit 2 sets Automatic Kjeldahl Distillator with the following performance specifications and features: Analysis time: 3.5 minutes at 30 mg N (6.5 minutes at 200 mg N) Distillation capacity: ~40 mL/min at 230 V (at 100% steam addition) Measuring range: 0.1 – 210 mg N Reproducibility: 1% RSD (including the digestion step) Recovery: 99.5 – 100.5% at nitrogen levels between 1-200 mg N Colored touchscreen display Steam Addition for Equilibration Distillate Temperature monitor Automatic alkali addition Automatic dilution water addition Automatic receiver solution Addition Tube emptying/waste collection Power supply: 200-240 V, 50-60Hz Power consumption: 3000 W</p>								
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	<p>With standard accessory kit for Kjeldahl distillator including: Safety Manual 2 sets Tanks with level sensors for Waste, Receiver, Alkali and Water 2 sets PM kit for Kjeldahl Distillator 1 unit Digital Burette, 50ml capacity 1 unit UPS, 15-30 mins back up time with additional inclusion of 1 unit benchtop chiller with the following description and inclusions: Power supply: 120V, 60Hz Cooling capacity at 20°C: 1000W Max flow: 13L/min Working Temp Range: -20 °C to 40 °C Temp Stability: ± 1°C with 1 unit Step-down transformer Technical and hands on training on use and maintenance at manufacturer's training facility for two (2) Training at site on operation and troubleshooting of equipment Technical support during analysis and method validation/ verification Minimum of 1 year warranty on parts and services and up to 2 years warranty on maintenance and services</p>								
2	<p>1 unit - Biosafety Cabinet Class II, Type A2 Biosafety Cabinet with 5KVA AVR Nominal Width: 4' Nominal Sash Opening: 8" (20 cm) Base Stand: Included</p>		1 unit						

	<p>Conforms to ADA, CE, NSF 49 Lighting: Ultraviolet, LED Electronically Commutated Motor (ECM) Intrinsically-safe negative pressure design Fully scannable 99.99+% supply and exhaust HEPA filters, 99.999% efficient ULPA filters available 10° angled, fully closing sash 1/4" tempered safety glass with counterbalanced Anti-racking, easy-to-lift mechanism Leak-tight stainless steel interior. Powder-coated steel exterior Removable towel catch located under work surface Electronic security lock 8", 10", or 12" (20.3, 25.4, or 30.5 cm) working sash height Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, maintenance and services</p>								
3	<p>3 units - Analytical Balance With built-in application programs With exceptional monolithic weigh cell With standard internal, motorized calibration Weighing Capacity (g): 220g Readability: 0.0001g (0.1mg) Pan size (mm): 90 mm dia. Repeatability: 0.0001g (0.1mg) Linearity: 0.0002g (0.2mg)</p>		3 units						

	<p>Response time (sec.): 2.5sec. Calibration: Internal Power Supply: 230V, 60Hz With AVR Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>								
4	<p>2 units - Laboratory Oven Capacity: 65L Type: Gravity Convection Controller type: Microprocessor control with vacuum fluorescent display Temperature: 50°C to 250°C Temp. Stability: $\pm 0.4^{\circ}\text{C}$ No. of shelves: 2 Power supply: 230 V 50/60 Hz With 1 unit thermocouple, type K With 1 unit thermo hygrometer, traceable with clock Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services</p>		2 units						
5	<p>2 units - Toploading Balance Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec Calibration: Internal With AVR On site training for the preventive maintenance and proper operation of unit</p>		2 units						

	Minimum of 1 year warranty on parts, maintenance and services								
6	<p>1 unit - Water Purifier Water Purification System, Type 1 and Type 2 Flow rate: 1L/min (Type 1) Permeate Flow: 16L/hour (Type 2) Includes internal leak detector System alerts when filters need replacement comes complete with: 1 local RO System as pretreatment 2 sets additional pretreatment cartridges 1 set additional RO cartridge ultrapure polisher cartridge sterile 0.1 µm filter CO2 vent filter and sterile overflow with locally supplied pump and installation Includes all local installation costs Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts, services and maintenance including consumables</p>		1 unit						
7	<p>1 unit - Laboratory Mill for high and low fat/moisture content</p> <p>1 unit laboratory mill for high-fat, high moisture Higher than 15% moisture and 10% fat Up to 200ml sample (30-200g) Grinding rate/time: 2 to 10 seconds Grinding speed: Blade, 16,000 rpm With timer Safety: Microswitch, solenoid</p>		1 unit						

	<p>Power supply: 200-240 V, 50-60 Hz Power consumption: 600W With standard accessory kit With 1 unit PM kit and 1 unit AVR, 3kVA Additional Inclusion: 1 unit laboratory mill for low fat/low moisture samples up to 15% moisture and 10% fat High-volume air flow with minimal cross contamination Sample size: Up to 10 mm, large inlet up to 40mm Grinding rate/time: Appr. 4grams per second Grinding Speed: Impeller, 10,000 rpm Particle size: Fine and uniform grist Safety: Microswitch, motor brake Power Supply: 100-120 V, 60 Hz Power Consumption: 600 W With complete standard accessory kit With 1 pack glass sample bottle, 350ml, 4pcs/pack With 2 pcs. Screen 1.0 mm With 1 pc. Nickel plated impeller With 1 pc. Grinding ring for hard samples With 1 unit Stepdown Transformer, 2kVA With laboratory table for lab mills Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>								
8	<p>1 unit - Orbital Shaker Full-color touchscreen display</p>		1 unit						

	<p>Programmable up to 99 unique saved programs Retains parameters during a power failure Soft start feature eliminates sudden starts and stops Variable speed control from 15 to 525 rpm with a 1 inch orbit Maximum load capacity of 25kg (55lbs) Speed Control Accuracy: ± 1 rpm Electrical Requirements: 100/240 V, 50/60 Hz Operating Temperature Range: 5°C to 60°C Certifications/Compliance: UL, cUL, CE comes complete with: 1 pc 12 x 14 universal platform 10 pcs clamp to hold 125ml E. flask 2 pcs adhesive mat 9x9 in Technical and Hands on Training on use and maintenance on site Minimum of 1 year warranty on parts and services</p>								
9	<p>1 unit - Laboratory Glassware Washer Materials: Lower spindle rack, stainless steel with up to 36 detachable large spindles up to 18 glassware holders up to 36 adjustable height clips Four leveling feet Aluminum-backed insulation and fiberglass thermal blanket Specifications: Full color touch screen display Up to 200 user-defined programs</p>		1 unit						

	<p>Clear and specific alarm displays Calibratable setpoints for temperature, fill volume, detergent dispensing Self-diagnostics and password protection Water temperature up to 93° C Synchronous drain pump rated at up to 4.2 gal/min (16 L/min) Purified water pump Forced air drying into the tank and through spindles programmable up to 240 minutes and from 38-80° C Detergent dispenser for powder or liquid detergent Operation at or below 62 decibels With glassware cart, stainless steel, approx. 36" x 20" with 4" diameter casters With complete mandatory accessories Includes all local installation costs Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>								
10	<p>2 units - Magnetic Stirrer with Heating Ceramic Plate Ceramic Digital Stirring hotplate Max. surface temp: 400°C Stir range: 50 to 1500 rpm Max Flask size: 6L with hot top warning system with automatic over-temp protection Easy to read LED Display 230V, 50/60Hz With Vortex mixer, Speed: 200-3000</p>		2 units						

	rpm, speed and time display with 1 set spin bars (1, 1.5, 2.0 in) With 3 pcs. Spin bar retriever Minimum of 1 year warranty on parts Onsite training for the preventive maintenance and Proper operation of unit Minimum of 1 year warranty on parts, maintenance and services								
	TOTAL for LOT 1								
	LOT 2								
11	1 unit - Fiber Analyzer 1 unit semi-automated fiber analyzer using Filter Bag Technology Sample size: 0.5 - 1.0 gram Fiber Range: 0% - 100% Samples per batch: Up to 24 Samples per day: up to 96 (crude fiber) Operating Temp: 100 °C Power Requirements: 120-240V, 50/60Hz With the following inclusions: 3 packs Filter bags, 1000pcs per pack 6 pcs. Desiccant pouch 6 pcs. Acetone Resistant Marker 2 pcs. Filter bag holder 2 sets Agitator Packing set 2 pcs. Heat Sealer 1 unit AVR Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services		1 unit						
12	1 unit - Fat Extractor with Benchtop Chiller		1 unit						

	<p>1 unit fully automated fat extractor using Filter Bag Technology Sample size: 1.0 - 3.0 grams Fat/Oil Range: 0% - 100% Samples per batch: Up to 15 Operation Time: 30 - 60 mins (Crude Fat Extraction) Samples per day: Up to 150 Operating Temp: 90 °C Power Requirements: 110-240 V, 50/60 Hz With the following inclusions: 1 pc. Heat sealer 1 pack Filter bags for Fat, 1000 pcs. per pack 2 pcs. Filter bag holder 3 pcs. Desiccant pouch 3 pcs. Acetone Marker 1 unit AVR 1 unit Benchtop Chiller with the following technical specs: Process Temp: 0 °C to 40 °C Temperature Stability: ± 0.5 °C Category: Recirculating coolers Installation and Technical and Hands on Training on use and maintenance on site 1 year warranty on parts and services</p>								
	TOTAL FOR LOT 2								
	LOT 3								
13	<p>1 unit - UV-VIS Spectrophotometer Use of long-life Xenon flash lamp Double-beam optical system Automatic 6-cell turret Technical Specifications:</p>		1 unit						

<p>Optical System: Czerny - Turner mount Double beam Wavelength Range: 190 to 1100 nm Spectral band width: 1 nm Wavelength accuracy: ± 0.3 nm (at Xe 260.6, 484.3, 881.9 nm; Hg 253.7, 435.8, 546.1 nm) Wavelength repeatability: ± 0.1 nm Photometric Accuracy: ± 0.002 Abs (0-0.5 Abs); ± 0.004 Abs (0.6-1.0 Abs) Photometric Repeatability: ± 0.002 Abs (0- 1.0 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 8500 nm/min Response: Fast, Medium, Slow Baseline Stability: 0.0005 Abs/h (at 260 nm) Noise level (RMS): 0.0001 Abs (RMS 260nm, 0 Abs) Baseline flatness: ± 0.0009 Abs (200 to 950nm) Light source (warranty period): Xenon flash lamp 5W (7 years) Cell Holder: Automatic 6-cell turret Detector: Silicone photodiode Measurement modes: Concentration measurement, Absorbance/Trans mittance, Nucleic acid, wavelength scan, time scan, monitor measurement</p>								
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	<p>Wavelength calibration: Available.</p> <p>Sample Compartment: Automatic 6-cell turret</p> <p>Printer interface: Wi-Fi or USB</p> <p>Interface: LAN port: connected to a router or PC</p> <p>Remote controlled Power: 220V-240V</p> <p>Power consumption: 70 W or less</p> <p>Operating Temperature: 15-35 °C</p> <p>Inclusions:</p> <p>12 units Quartz Cuvette</p> <p>1 unit Instrument Desk (for instrument and PC)</p> <p>1 unit AVR/UPS (3KVA)</p> <p>1 unit LAN Cable</p> <p>MS Office Home & Business Software</p> <p>1 unit Laptop with the following specs:</p> <p>Operating system: Windows 11</p> <p>Processor: i7</p> <p>Processor</p> <p>Memory: 8 GB;</p> <p>Storage: 512 GB</p> <p>Installation and on-site training</p> <p>1 year warranty on parts and services</p>								
	TOTAL FOR LOT 3								
	LOT 4								
14	<p>1 unit - Muffle Furnace</p> <p>External Material: cold-rolled steel with anti-bacterial powder coating</p> <p>Internal material: high density ceramic fiber</p> <p>All stainless steel</p> <p>glory hole</p> <p>Dual ceramic inner chamber and hollow heat insulation</p> <p>Heating rate is about 60 °C per minute</p> <p>Automatic pressure door technology</p>		1 unit						

	<p>Micro digital screen controlled</p> <p>Over-temperature alarm and auto-stop</p> <p>Double-shell hollow thermal insulation</p> <p>Maximum Temp: 1200 °C</p> <p>Temp. Accuracy: ± 1°C; Capacity (L): 16</p> <p>Power supply: 220/380V, 50/60 Hz</p> <p>Onsite training for the preventive maintenance and proper operation of unit</p> <p>Minimum of 1 year warranty on parts, maintenance and services</p>								
15	<p>2 units - Digital Burette</p> <p>With remote control panel</p> <p>With built-in magnetic stirrer support</p> <p>Volume Range: 0.01ml-99.99ml</p> <p>Volume Accuracy: R=0.2% CV=0.07%</p> <p>Operating Temp. Range= 10°C-30°C</p> <p>Control Type: External Control</p> <p>With Reagent bottle, 1L capacity per unit</p> <p>Onsite training for the preventive maintenance and proper operation of unit</p> <p>Minimum of 1 year warranty on parts, maintenance and services</p>		2 units						
16	<p>2 units - DISINFECTING AND HARMLESS ULTRAVIOLET LAMP</p> <p>wavelength:222nm</p> <p>70nm output (100 beam angle) 8</p> <p>5-305 V AC 50/60 Hz 17 w power, continuous duty cycle, motion activated ;</p> <p>power lead (PVC) 3x 0.75 nm (18 AWG);</p>		2 units						

	With Installation and training on operations and maintenance. warranty: 2 years								
	TOTAL FOR LOT 4								
	LOT 5								
17	1 unit - ELISA Reader ELISA Strip Reader for Aflatoxin Analysis Microwell Reader, 12-well strip carrier With four filters: 405, 450, 492 and 630 nm filters Package Dimensions: 13.90 in x 18.80 in x 9.10 in Compact, stand-alone microstrip reader Touchscreen interface With built-in printer With complete mandatory accessories Onsite training for the preventive maintenance and proper operation of unit Minimum of 1 year warranty on parts, maintenance and services		1 unit						
	TOTAL FOR LOT 5								
	LOT 6								
18	1 unit - LABORATORY REFRIGERATOR Capacity 100L Temperature range 2 C to 8C 3 shelves; R600a refrigerant 1 glass door 50dB noise power consumption 1.65 kWh/24 hrs Internal Dimensions (W*D*H) : 385*356*737mm External Dimensions (W*D*H) : 505*510*875mm Packaging Dimensions		1 unit						

	(W*D*H) : 580*580*940mm; Net Weight : 35kg Gross Weight : 38kg Power Supply: 220V/50Hz; Installation and training on operations and maintenance. with AVR" and thermohygrometer warranty: 2 years								
19	1 unit - Atomic Absorption Spectrophotometer (with complete accessories) specs: Wavelength range:185.0 to 900.0 nm Monochromator : Czerny-Turner mounting or equivalent Bandwidth : 0.1-2L nm minimum Detector : Photomultiplier tube or equivalent Optics : Optical double-beam or better Background correction method : BGC-SR · BGC-D2 (D2 lamp method) (185.0 to 900 nm) or better Number of HC lamps : · Minimum 6 lamps 2 lamps simultaneously lit (1 for measurement, 1 warming up for next measurement) or better Lamp mode: Emission, Non- BGC, BGC-D2, BGC-SR or equivalent Baseline Correction: Automatic correction of baseline drift by offset correction in peak height / peak area modes or equivalent		1 unit						

<p>Flame Burner head: Titanium or equivalent Nebulizer: Pt-Ir capillary, PTFE orifice, ceramic impact bead (capable of handling HF acid) or better Chamber: Engineering plastics or equivalent Flow rate control: Automatic fuel gas flow rate setting (0.1L/min step), manual support gas flow rate setting, automatic search of optimum gas flow rate or better</p> <p>Safety measures (Flame): Automatic extinction via flame vibration sensor Automatic gas leak check Automatic Air-N₂O switching as C₂H₂ flow rate increases flame monitor Prevention of incorrect burner head use gas pressure monitor Drain tank level monitor Automatic flame extinction upon power outage or sudden power interruption Internal fan stop sensor or equivalent</p> <p>Furnace Heating Temperature range: Ambient to 3,000 °C or better</p> <p>Safety measures (Furnace): Cooling water flow rate monitor gas pressure monitor overcurrent protection unit</p>								
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<p>Furnace block check or equivalent</p> <p>Power Requirements: 220V AC $\pm 5\%$, 7400 VA, 50/60 Hz or equivalent DIMENSIONS and WEIGHT: 230W : 560D X 506 H mm, 50Kg or equivalent</p> <p>Software Must be compatible with Microsoft operating system Windows 10 minimum Must display mean value, standard deviation and coefficient of variation and has an automatic exclusion of deviant values by setting SD and %RSD Should automatically check for proper functioning of lamp, detector, and background corrector before starting analysis Must be able to record the used lamp time (hours) and monitor lamp warming up-time</p> <p>Accessories Complete PC System: Windows 10; Processor i5, 8G RAM or better Continuous Ink printer Acetylene gas (tank), gas Lines and Regulator Argon gas (tank), gas Lines and Regulator Silent type Oil-Less Air Compressor Cooling water Circulator Dual Stage Festo Air Filter</p>								
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	<p>Pyrolytic Graphite Tube, 10pcs/Set High-density graphite tube, 10pcs/Set Hollow cathode lamps and standards; calcium, copper, cobalt, zinc, sodium, potassium, magnesium, manganese, arsenic, cadmium, iron, lead, mercury Exhaust system (Canopy Hood, Exhaust fan and Hood) UPS Multiple Outlet</p> <p>Other Accessories: Hydride Vapor Generator Unit, HVG-100 or equivalent Mercury Vaporizer or equivalent</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country Certificate of distributorship from the principal supplier</p>								
20	2 units - Autoclave (Pressure Cooker Type) specs:		2 units						

	<p>Temperature Controller: Digital PID Controller Using Press: 0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm2) Pressure Gauge: Mechanical type 0 to 0.3 MPa Temperature Range: Max 130°C Sensor: Pt-100 Capacity: 100 L Heater: 5 kW Internal Material: Stainless Steel External Material: Steel Plate with Powder Safety Device Automatic reset function incoming power cut Buzzer on when set time arrived Electric leakage circuit breaker Over temperature protection device Safety relief valve Accessory Wire basket x 2 EA</p>								
21	<p>4 units - Showcase Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design; Double Glass Door; Fan-cooled system; Galvanized Inner Lining; Internal Lamp; Lighted Panel Drain Pan; Roller feet with locking mechanism; 6 adjustable coated wire shelves; 190 -210 W input power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR</p>		4 units						

22	<p>1 unit – UV-Vis Spectrophotometer</p> <p>Wavelength Range: 190 to 1,100nm</p> <p>Spectral Bandwidth: 1nm or better</p> <p>Wavelength Accuracy: $\pm 0.3\text{nm}$ for entire range or equivalent</p> <p>Wavelength Repeatability: $\pm 0.025\text{nm}$</p> <p>Wavelength scanning speed: 3000nm/min or better</p> <p>Stray light: $<0.004\%$ @ 220nm minimum $<0.004\%$ @ 340nm minimum $<0.15\%$ @ 198nm minimum</p> <p>Photometric system: Double beam optics or equivalent</p> <p>Photometric Range: Absorbance: -4 to 4abs or better</p> <p>Transmittance: 0% to 400% or better</p> <p>Noise level: <0.00001 Abs or equivalent</p> <p>Light Source: Halogen & deuterium lamp or equivalent</p> <p>Monochromater: Czerny-Turner mounting or equivalent</p> <p>Detector: Silicone photodiode</p> <p>Power Requirements: AC220 V, 50/60 Hz, 140 VA or equivalent</p> <p>Dimensions: W450 x D501 x H244 mm minimum</p> <p>Weight: 16.6 Kg minimum</p> <p>PC Compatibility: Can be operated as stand-alone or pc controlled</p> <p>Display: 24-bit color touch screen or better</p>		1 unit						
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	<p>Operational Accessories; With Sipper Unit Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer</p> <p>Warranty: 2 years warranty on parts and services Onsite Training by Trained Applications Chemist Supplier must have at least 5 service engineers working with the same brand for at least 10 years Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, transportation allowance for 2 pax At least 10 installation of AAS in the country</p>								
	TOTAL FOR LOT 6								
	LOT 7								
23	<p>1 unit - AUTOMATED EXTRACTION MACHINE automated nucleic acid extraction, 100-240 VACprocess 6-96 samples for multiple application, high extraction efficiency; sample throughput per run up to 1- 12-32 with 12-16 pin magnet head,; 24-32 maximum sample load; 20-1000ul volume range; CVs5% difference between purification repeats;</p>		1 unit						

	<p>Heating/cooling 10 to 120 C , Temperature accuracy +-1C; 4-75C in RT elution strip; 8 W UV lamp; up to 16 hrs UV exposure time; Internal procedures 500 programs storage; fan exhaust system; with software memory device; USB computer interface; inclusion: DNA extraction kit (lysis soln, binding soln, wash 1 &2, elution buffer, magnetic beads, proteinase K); extraction kit consumable by single test by 8 ,16 -32 run, ASF TEST KIT, laptop, printer, UPS,AVR, table for the machine and laboratory chair and 1 unit 1.5 HP split type air-condition. With Installation and training on operations and maintenance. warranty:2years</p>								
	TOTAL FOR LOT 7								
	LOT 8								
24	<p>2 units - AUTOCLAVE/STEAM STERILIZER Chamber Capacity: 40- 54 Liters, Ø 320 x 676 mm Maximum temperature pressure: 140° C, 0.27MPa. Controller: Microprocessor controller, graphic display Temperature: 3 digits, PID control Timer: 2 digits hours, 2 digits minutes, down count (Temperature/Time integration system)</p>		2 units						

	<p>Safety valve operation: 0.29 MPa Water test pressure: 0.58 MPa Material: Chamber & lid: Stainless Steel SUS304, shiny polished. Molded silicon rubber gasket (self-seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat-resisting molded resin Power requirement (50/60Hz): AC220/230/240V, 1 phase, 12A Outer dimension (W x D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: Ø 300 x 300 x 2pcs FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years</p>								
	TOTAL FOR LOT 8								
	LOT 9								
25	<p>1 unit - ELISA Microplate Photometer High resolution touch screen touch screen , 6V, 10 W Photo detector, Interface user on board or PC control</p>		1 unit						

	<p>light source quartz halogen lamp speed 7s for 96 well plate, 13 s for 96-well, linear shaking R2>- 0.995 accuracy +- 1% (0 to 3 abs) or +- 0.003Abs 8 position filter wheel: filter installed 405 nm, 450nm,492nm, 620nm, 630nm height 7 to 8.7 inc; 50-60 HZ; voltage 100/240 range with Incubation temperature range RT+4 C - 50 C; temp accuracy +- 0.5 C @ 35 C,., built in software, touch screen, external mouse; 3 x USB port, connecting computer, printer & usb drive with inclusion microplate washer (Washing heads 1X8 OR 1X12 HEADS) uninterrupted power supply, automatic voltage regulator</p>								
	TOTAL FOR LOT 9								
	LOT 10								
26	<p>1 unit - AIRBORN SURFACE DISINFECTION SYSTEM Portable disinfection nebulizer of airborne surface disinfection. Can be used in combination with ready to use 7.4% pure hydrogen peroxide disinfectant. 5.3 kg, powerful. Maximum volume treated 156 m3. Refill volume 1 liter. dimension 300 x 300x 300mm. device flow 25 ml/min With Installation and training on operations and maintenance.</p>		1 unit						

	warranty: 2 years								
TOTAL FOR LOT 10									
LOT 11									
27	<p>1 unit – Blender/Hemogenizer High performance Blender/Hemogenizer for small and standard sample preparation digital control and LCD display 2x 16 character alphanumeric display adjustable timer,(10 sec to 3 minute or continues) Processing 3 speed, low, medium, high; rapid crushing: only 15 to 30 seconds to homogenized sample. Blending capacity 80 to 400 ml bags, with patented smash effect avoiding jams and broken bags removable stainless steel paddles power supply 115 V+₋ 10%/ 50-60 Hz/1 A or 230 V +₋ 10%/ 50-60 Hz 0.5 A adjustable timer 10 to 3 min. or continuous Dimension W 400 mm x H 3330 mm, D 380 mm INCLUSION User manual, 1 power supply(UPS 1kVA), 1 pack of 50 sterile 400 ml blender bags, 1 waste tray, compliance certificate, 1-2 years warranty</p>		1 unit						
TOTAL FOR LOT 11									
LOT 12									
28	1 unit - DIGITAL INCUBATOR Dual convection for versatility of application:		1 unit						

	<p>Temperature Range: 0 °C to 70°C; working temperature range 0 to +70 C; fan speed adjustable from 0 to 100%; Advanced digital timer for daily or weekly on / off cycles; Stainless steel interior (1.4301) is easy to clean and corrosion resistant; Temperature uniformity as good as ± 0.2 °C; temperature sensor DIN class A in 4 wire circuit Temperature stability at ± 0.1 °C Chamber Volume: 53 L; 4 maximum no of intervals; 80 kg loading chamber; fully insulated stainless steel door with 2 point locking (compression door lock) 1 stainless steel grid , electro polished , works calibration certificate +10 C and +37 C; with inner glass door; with table for the machine, With Installation and training on operations and maintenance. warranty: 2 years</p>								
29	<p>1 unit - DIGITAL MICROSCOPE WITH CAMERA, accessories and LAPTOP Binocular, integrated 5.0 MP CMOS color USB CAMERA, 2592 X 1044 PIXELS/ 7 FRAMES PER SECOND (2592 X 1944 PIXELS) 27 frames per second (1280 x 960 pixels) digital microscope</p>		1 unit						

	<p>Dynamic range 76 db signal/noise ratio 41 db. with USB cable and micrometer 1mm/100 calibration slide software compatible with windows 10 and higher both 32 & 64 bits configuration HWF 10x/20 mm eyepieces and quintuple nosepiece with 4/10/S40/S100x oil infinity corrected IOS objectives, 131 x 152/197 mm stage with integrated mechanical 75 x 36mm rackless X-Y stage. 3 W NeoLEDTM Köhler illumination and Integrated power supply. Supplied without rechargeable batteries. with 1 laptop, 10 years warranty</p>								
30	<p>1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination Double coaxial, low positioned coarse and fine adjustment w/ 180 graduations. Precision 1.1 um, 200um per rotation total travel range approximately 19 mm. warranty: 10 years</p>		1 unit						
31	<p>1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with</p>		1 unit						

	mechanical stage and 1 W NeoLED™ cordless Köhler illumination BioBlue EVO binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage and 1 W NeoLED™ cordless Köhler illumination								
TOTAL FOR LOT 12									
	LOT 13								
32	<p>1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type B1/B2 Cabinet, Dimensions:30(L) x 53(W) x 82(H)Inches; 4 feet (1.2 Meters)</p> <p>NSF/ANSI 49, Style of Cabinet Bench top/console w/base stand/storage cabinet, Cabinet Construction All welded stainless steel 16/18 GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal) Non-flammable Electro galvanizes steel exterior white oven baked antimicrobial powder coating finish stainless steel work zone tray ergonomically angled frameless and shatterproof tempered glass sliding sash Filter Ultra low Particulate Air with -99.99% Efficiency at 0.3 -01 microns , air volume 346 cmh inflow,764 cmh down flow ISO 14644 -1 Class 3 Air quality</p>		1 unit						

	<p>HEPEX Seal Electrical requirement 220-240 V AC Hz, single phase . nominal power consumption:308 W, maximum power/ current consumption 360 W/2A lamp intensity 118 LUx; microprocessor controller, soft keys for menu and cabinet function (blower, UV light, electrical outlet etc): with caster wheels, low noise emission of 60dBA (NSF/ ANSI 49; 57 dBA (EN12469); Neoprene, Spring-loaded, Fumigation ;4 feet (1. 2M); with support stand with caster wheels, UV lamp, automatic voltage regulator 2 years warranty on partss and services Inclusion with 2 years certification and decontamination and 1 set of laboratory chair With Installation and training on operations and maintenance.</p>								
33	<p>1 unit - GENERAL PURPOSE OVEN 54 L chamber capacity, 220-240 VAC; 50/60 HZ 1 phase power supply.</p> <p>oven chamber 1.2 mm 18 gauge stainless steel grade 304 with 4B finish 2 point door seal and eccentric hinge to ensure maximum gasket compression external dimension WDH: 550x527 x695 mm</p>		1 unit						

	<p>internal dimension WDH; 400 x 340 x400 mm temperature range + 75 C to 300 C temperature variation 70 C is +/- 0.6 C validated and passed calibration, an ISO 17025 testing laboratory microprocessor PID control technology; Pre heat chamber Technology 4-zone heated air jacket Anti-microbial Powder coating; with Installation and training on operations and maintenance. with AVR Warranty: 2 years</p>								
TOTAL FOR LOT 13									
LOT 14									
34	<p>1 unit - Gas Chromatography tandem Mass Spectrometry(GCM S)</p> <p>Mass Spectrometer: Ionization sources: EI, Chemical Ionization must be provided as an option Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid source chamber removal and ionization mode change One-click complete system shutdown for any routine maintenance User changeable internal calibrant Source temperature limited to 250°C to avoid excess fragmentation while retaining high chromatographic performance</p>		1 unit						

<p>EI Filaments: Dual long-lasting filaments Electron energy-Range 10-200 eV Pump down time: Can pump down cold, vented instrument to working pressure (3e-5 mBar) and get to temperatures (250°C source and 350°C transfer line) in 15 minutes Ion Source transfer optics: Innovative user-centred design and are only able to be assembled one way, reducing training time and errors in re-assembly"</p> <p>Mass Analyzer: Two high-resolution, stable quadrupole analyzers with pre-filters Collision cell: Must use a travelling wave voltage for rapid, axial transport of ions through the device</p> <p>Detector: Must incorporate an off-axis dynolite photomultiplier detector Vacuum system: Must be air-cooled turbomolecular pump evacuating the source & analyser. An external, chilled water supply must not be required for the vacuum system Regulatory approval/marks: CE and NRTL Gas</p> <p>Chromatograph: Injector: Split/splitless Auto sampler: Liquid injection Sample Vial Capacity: 150</p>								
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<p>Oven temperature: Ambient + 2 to 450 °C</p> <p>Oven ramps/plateaus: Supports 20 oven ramps and 21 plateaus</p> <p>Negative Ramps: Allowed</p> <p>Ramp rate: 120 °C/min (200 +V), 75 °C/min (120V)</p> <p>Flow control: Capillary flow technology</p> <p>Product ion confirmation (PIC) mode: MRM acquisition acts as an automatic trigger for the acquisition of product ion spectra</p> <p>Simultaneous full scan and MRM mode: An information rich acquisition approach that allows you to collect highly specific quantitative data for target analysis while providing NIST-searchable full scan spectra in parallel</p> <p>Mass range: 2-1250 m/z</p> <p>Scan Speed: 20,000 u/s</p> <p>Mass Stability: $\pm < 0.1$ u/24 hour period</p> <p>Linearity of response: The linearity of response relative to sample concentration for a specified compound is six orders of magnitude from the limit of detection</p> <p>MS to MS/MS switching time: 3 ms</p> <p>MRM acquisition rate: 500 MRM data points per second to 800 MRM data points per second</p> <p>Inter-channel cross talk: The inter-channel cross talk between two MRM</p>								
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<p>transitions will be less than 0.001% (less than 10 ppm)</p> <p>Number of MRM channels: Up to 32,768 MRM channels(1024 functions, 32 channels per function) can be monitored in a single acquisition</p> <p>Mass Resolution: 0.4 u - 3.00 u (FWHM), or custom set-up</p> <p>MRM instrument</p> <p>Detection Limit (EI): The instrument has an Instrument Detection Limit (IDL) of less than 4 fg of octafluoronaphthalene from 8 consecutive injections</p> <p>MRM Sensitivity (EI): 1 µL of 10 fg/µL octafluoronaphthalene will give a chromatographic signal-to-noise greater than 1600:1 for the transition of m/z 272>222</p> <p>MRM Sensitivity (PCI): 1 µL of 100 fg/µL Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105</p> <p>Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthalene will give a chromatographic signal-to-noise greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550</p> <p>SIR sensitivity (NCI): 1 µL of 100 fg/µL octafluoronaphthalene</p>								
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<p>ne will give a chromatographic signal-to-noise greater than 2000:1 for m/z 272 Weight: Must not exceed 135 Kg.</p> <p><u>Inclusions:</u> NIST Library - latest version, 1 license PESTICIDE ANALYSIS GC CONSUMABLES - 1 set DisQuE Pouch for 50mL CEN - 2 packs, 50pcs per pack DisQuE 15mL Tube/MgSO4/PSA - 2 packs, 50pcs per pack Oasis PRiME HLB Plus Short Cart. 50/box - 2 boxes GCMS compatible 12x32mm clear preslit combination vials - 5 boxes, 100pcs per box SPE Manifold with vacuum pump - 1pc Acetonitrile 4L/bot MS Grade - 5 bottles Hexane MS 4L/bot Grade - 2 bottles Ethyl Acetate MS 4L/bot - 2 bottles Methanol MS 4L/bot - 2 bottles Dichloromethane MS 4L/bot - 2 bottles Pesticide Standard mix - 1 set vortex mixer - 1 pc blender - 1 pc Centrifuge -1pc Sonicator -1 pc around 5 liters Plumbing for Gas lines Gas regulator for Helium and Argon Tanks Split type arconditioning Instrument table Argon tank UHP grade 5.0 at least 1 tank</p>								
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	<p>Helium tanks UHP grade 5.0 at least 3 tanks UPS and Transformer Lab chair Training at Manufacturer's Training Center inclusion of Training Fee, Airfare, accommodation, Local Training certificate will be provided</p>								
35	<p>1 unit - qPCR Machine</p> <p>Weight: 7 kg Operating noise: <40 dB(A) Electrical Voltage: 240 V (+/- 10%) Frequency: 50 - 60 Hz (+/- 10%) Power: 170 W Number of reactions: 32 Reaction Vessels: 0.1ml single tube and/or 8-tube strips Reaction volume: 10 - 100 µl (20 µl recommended) Temperature cycling system: Peltier-based heating & cooling from +37 to +99°C Heating rate: 5°C/s & Cooling Rate: 4°C/s Temperature uniformity: +/- 0.05°C (SD) Temperature accuracy: +/- 0.25°C Run Time: <50 min Fluorescence Excitation: 500 nm nm (blue LED) Fluorescence Detection: 120 optical channels from 510 to 750 nm (CMOS camera) Supported Assays Formats: Intercalating dyes (e.g., SYBR Green I), Hydrolysis Probes, Molecular Beacons,</p>		1 unit						

<p>SimpleProbes, HybProbes Factory-Calibrated Dyes (at shipment): SYBR Green I / FAM / ResoLight; VIC / HEX / Yellow555; LC RED 610 / Texas Red; Cy5 Multiplexing Capabilities: Up to 7 targets</p> <p>Applications: Relative and Absolute Quantification Analysis, Melting Peak Analysis, Endpoint Genotyping Analysis, High Resolution Melting (HRM)</p> <p>Sensitivity: 1.1 fold discrimination, 9-log dynamic range, Single copy detection Connection options: LAN, Direct connection to computer (RJ45), PC-free (USB stick/flash drive controlled)</p> <p><u>Inclusions:</u> 1. Absorbance plate reader with cuvette port Specifications: Detection Modes UV/vis absorbance spectra Measurement Modes Endpoint and kinetic Spectral scanning (absorbance) Well scanning Microplate Formats 6 to 1536-well plates, user- definable LVis Plate with 16 low-volume microspots (2 µL) Microplate Carrier Robot compatible Light Sources</p>								
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<p>High energy xenon flash lamp Detectors CCD Spectrometer Wavelength Selection UV/vis absorbance spectrometer Full spectra or 8 distinct wavelengths in < 1 sec/well Spectral Range 220 - 1000 nm; wavelength precision: ≤ 0.5 nm Sensitivity Selectable spectral resolution: 1, 2, 5, and 10 nm OD range: 0 to 4 OD; photometric resolution: 0.001 OD Accuracy: < 1% at 2 OD Precision: < 0.5% at 1 OD and < 0.8% at 2 OD Linearity: $\leq 0.8\%$ at 2.0 OD Read Times Full spectrum from 220 to 1000 nm in less than 1 sec/well Shaking Linear, orbital, and double-orbital with user-definable time and speed Purge Gas Vent</p> <p>System to inject an atmosphere or to pull a vacuum into the reader Incubation +3 °C above ambient up to 45 °C"</p> <p>The upper heating plate of the incubation chamber operates at 0.5 °C more than the lower plate. This prevents condensation build-up on the lid or sealer</p> <p>Software Multi-user Reader Control and MARS Data Analysis Software included</p>								
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<p>FDA 21 CFR Part 11 compliant Dimensions Width: 36 cm, depth: 50 cm, height: 16 cm; weight: 10 kg; w/ Low-volume DNA and RNA nucleic acid quantification Low-volume protein quantification Endpoint and kinetic assays Absorbance spectral scanning of low volume samples</p> <p>2. Plant RNA/DNA Extraction kit</p> <p>3. 96-Place PCR Work Up Rack and Lid, Fluorescent Assorted, 5racks/pack</p> <p>4. 0.1 mL Individual Low-Profile Tubes , individual tubes, 1000 tubes /bag</p> <p>5. IsoFreeze PCR Rack, Pink, 10 racks/case</p> <p>6. 9 sets of Primers (Designed Primer for Xanthomonas oryzae, Rice Tungro Spherical Virus, Rice Tungro Bacilliform Virus, Erwinia chrysanthemi pv. Zeae, Ralstonia solanacearum, Erwinia papayae, Dickeya zea, Babuvirus-Banana bunchy top virus, Ampelovirus-Mealybug Wilt of Pineapple)</p> <p>7. Taq Mix</p> <p>8. Mini Centrifuge, Specifications: Includes two rotors: (fixed angle) 8X1.5 to 2.0ml. tubes, Adapters for 0.5 ml. and 0.4 ml. tubes available, 8 x 4 positions of 0.2 ml. strip tubes, Power: 245 VAC, 50/60 Hz, Maximum Speed: 7200 rpm (under</p>								
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	empty load), Relative Centrifuge Force (RCF)-2350 x g., Includes: Centrifuge Tubes (2.0ml.) , 2.0 ml. Microcentrifuge Tube, Sterile, 500pcs/bag								
TOTAL FOR LOT 14									
LOT 15									
36	1 unit - Stereo Zoom Microscopes Specs: Greenough zoom optical system, trinocular head, 35° inclined, 360° rotating, 100:0 (eyetubes), 50:50 (trinocular tube/right eyetube) optical split. Features: Trinocular head 35° rotating, Widefield eyepieces WF10X/23mm., Zoom ratio: 1:6.7, Magnification range 0.75X-5X, up to 320X, Base: Streamline plane base with Incident halogen light 12V/10W with intensity control, Transmitted halogen light 12V/10W with intensity control, Powersupply:100- 240V, Pole type stand Inclusions: Attachable digital C- mount camera, Sensor: CMOS, Live Resolution: 2.0MP (1600x1200), Optical Calculation: 1/3", Output: MiniUSB, Focusable lens: 12mm, 2 variable diameter eyepiece adapters, Macro tube for specimen's observation, with computer set.		1 unit						
37	1 unit - EC Meter		1 unit						

	<p>Specifications: Measuring range: 0 to 200uS, 0 to 2,000uS/cm, 0 to 500mS/cm; Automatic range; TDS: 0 to 200mg/l, 0 to 2000mg/l, 0 to 20g/l, 0 to 500g/l; Salinity: 0 to 70 Temperature: -10 to 100C Resolution: 0.1uS / 1uS / 0.01mS / 0.1mS / 0.1C Temperature compensation: Automatic Calibration: Temperature offset, Single point, Automatic Data Storage: 4,000 entries with date, time, value 1 +2 and temperature Power: 220V, 60Hz; Includes: Stand; Conductivity Cell Conductivity testing solutions Warranty: One year on parts and service Installation and training on operations and maintenance With Certificate of Calibration With Certificate of Distributorship from Manufacturer</p>								
38	<p>1 unit – Fumehood (PERCHLORIC ACID)</p> <p>MOC, CRCA 18G Epoxy powder coated Stand, MS pipe, 18 G powder coated, Working table top MS powder coated sheet covered with PP sheet, Exhaust system, Motor Blower assembly covered with GI sheet</p> <p>Sash/ Door, Vertical folding type, Air velocity 0.5 m/s</p>		1 unit						

<p>Noise Level, 65 dBA, Glass window- Two layer toughen glass, 5 mm thickness Adjustable height, Motor control, Make up air</p> <p>Air needed to replace the air exhausted from a room by the fume hood and other ventilation devices</p> <p>Face velocity The velocity of the air passing through the work opening of the fume hood measured in the plane of the sash. Measured in feet per minute (fpm), or liters per minute</p> <p>Electrical fittings, Electrical sockets and MCB switch, Illumination Fluorescent lamp or UV lamp, Optional accessories HEPA Filter Caster wheels Horizontal sash SS 314 / SS 316 MOC Temperature indicator Face Velocity Meter Airflow Indicator Audio / Visual alarm Power supply 220 / 230 V</p> <p>Inclusions: 2 units Digital Burette (50 ml capacity) w/ 1 liter reagent bottle 2 units thermocouple device 2 units thermohygrometer traceable w/clock 2 units lab. Cart, stainless steel (3 layers) 2 units lab. Desiccator, cabinet type (2 layers) 4 pcs flame resistant lab coat</p>								
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	4 pcs heat resistant gloves 1 unit A/C inverter (2 hp)								
39	2 units - Benchtop pH/mV meter Temperature compensation: Automatic Calibration points: 3 minimum With calibration records With calibration timer Display: LCD or equivalent pH range: -2.0 to 20.0 +/- 0.1pH / -2.00 to 20.00 +/- 0.01pH / -2.000 to 19.999 +/-0.005pH or better mV range: +/- 1200.0 +/-0.3mV / +/- (2000 +/-1) mV or better Temperature range: -5C to 105C or better Reproducible results with auto read function or equivalent Power: Battery or Universal power supply Includes: - Universal power supply - pH electrode - Buffer solutions - Electrolyte solution - Installation and Commissioning - Certificate of Calibration - Warranty: One year on parts and service under normal use		2 units						
40	1 unit - Toploading Balance Specs: Weighing Capacity: 6,200g Readability: 0.01g Pan size (mm): 180 x 180 mm dia. Repeatability: 0.01g Linearity: 0.02g Response Time (sec): 1.1 sec.		1 unit						

	Calibration: Internal with AVR								
41	<p>1 unit - Analytical Balance,</p> <p>specs: Capacity: 120 g minimum Readability: 0.1 mg or equivalent Repeatability at max load: 0.1 mg or better Linearity, typical: 0.06 mg or better Display: LED touch or equivalent With built-in applications, 12 or better Calibration: fully automatic internal calibration and adjustment or equivalent Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning - Certificate of Calibration</p>		1 unit						
42	<p>1 unit - pH 2700 Meter With pH Electrode</p> <p>ATC Probe pH Electrode Refill Solution, 60 MlpH Measuring Range: -2 – 20 pH Resolution: 0.1 / 0.01 / 0.001 pH Accuracy: ±0.02 mV Measuring Range (redox): ± 2000 mV Accuracy: 0.1 / 1 Ion Measuring Range: 0.001 - 19,999 ppm Temperature Measuring Range: -20 - 120°C Resolution: 0.1 Accuracy: ±0.5 °C Inclusion DHS Kit Stirrer</p>		1 unit						

	<p>pH electrode XS standard temperature probe NT55 S7. BNC 1 m cable colored pH buffer solution (pH 7 and pH 4) soft keypad electrodes arm Stirrer Forced Convection; With Installation and training on operations and maintenance. warranty: 2 years</p>								
TOTAL FOR LOT 15									
LOT 16									
43	<p>1 unit - Laboratory Drying Oven, Temperature range: ambient plus 5C to 300C or better High temperature accuracy or equivalent Natural convection Controller with LCD display or better Electromechanical control of the exhaust flap or equivalent Stackable With Class 2 integrated independent temperature safety device or equivalent With visual alarm With USB port for recording data or equivalent Volume: 112 Liters minimum External dimensions: WHD 700-720 x720- 734 x 590-610 mm Internal dimensions: WHD 500-520 x 520-540 x 430-440 mm With two chrome plated racks or equivalent Power: 220V, 60Hz Includes: AVR - Installation and Commissioning - Certificate of Calibration</p>		1 unit						

	- Warranty: One year on parts and service under normal use								
44	1 unit - Reciprocating Horizontal Mechanical Shaker: Shaker Includes Plate 250mL x 23 each Flat form Dimension: 460W x 465D mm Dimension: 480W x 610D x 90H mm Speed Range: 15 to 300 rpm Speed Stroke: Adjustable 25, 30, 35 mm orbit Electrical Supply: 220V, 50/60 Hz Included in this price: 1 unit LSI-1 OPTION - SPRING RACK INSTEAD OF FLASK HOLDER		1 unit						
TOTAL FOR LOT 16									
GRAND TOTAL									

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

GPPB Resolution No. 16-2020, dated 16 September 2020

Bid Securing Declaration Form
[shall be submitted with the Bid if bidder opts to provide this form of bid security]

REPUBLIC OF THE PHILIPPINES)
CITY OF _____) S.S.

BID SECURING DECLARATION
Project Identification No.: *[Insert number]*

To: *[Insert name and address of the Procuring Entity]*

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of the written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1(f), of the IRR of RA No. 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I/we failed to timely file a request for reconsideration or (ii) I/we filed a waiver to avail of said right; and
 - c. I am/we are declared the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of *[month]* *[year]* at *[place of execution]*.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]
[Insert signatory's legal capacity]
Affiant

[Jurat]
[Format shall be based on the latest Rules on Notarial Practice]

Contract Agreement Form for the Procurement of Goods (Revised)
[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]

CONTRACT AGREEMENT

THIS AGREEMENT made the _____ day of _____ 20____ between [name of PROCURING ENTITY] of the Philippines (hereinafter called “the Entity”) of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called “the Supplier”) of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [*contract price in words and figures in specified currency*] (hereinafter called “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, *viz.*:
 - i. Philippine Bidding Documents (PBDs);
 - i. Schedule of Requirements;
 - ii. Technical Specifications;
 - iii. General and Special Conditions of Contract; and
 - iv. Supplemental or Bid Bulletins, if any
 - ii. Winning bidder’s bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder’s bidding envelopes, as annexes, and all other documents submitted (*e.g.*, Bidder’s response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity’s bid evaluation;
 - iii. Performance Security;
 - iv. Notice of Award of Contract; and the Bidder’s conforme thereto; and
 - v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**
3. In consideration for the sum of [*total contract price in words and figures*] or such other sums as may be ascertained, [*Named of the bidder*] agrees to [*state the object of the contract*] in accordance with his/her/its Bid.

4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

[Insert Name and Signature]

[Insert Name and Signature]

[Insert Signatory's Legal Capacity]

[Insert Signatory's Legal Capacity]

for:

for:

[Insert Procuring Entity]

[Insert Name of Supplier]

Acknowledgment

[Format shall be based on the latest Rules on Notarial Practice]

Omnibus Sworn Statement (Revised)
[shall be submitted with the Bid]

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. *[Select one, delete the other:]*

[If a sole proprietorship:] I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

[If a partnership, corporation, cooperative, or joint venture:] I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. *[Select one, delete the other:]*

[If a sole proprietorship:] As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;

[If a partnership, corporation, cooperative, or joint venture:] I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, **by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;**

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. *[Select one, delete the rest:]*

[If a sole proprietorship:] The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical

Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a partnership or cooperative:] None of the officers and members of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

[If a corporation or joint venture:] None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and
8. *[Name of Bidder]* is aware of and has undertaken the responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
 - a. Carefully examining all of the Bidding Documents;
 - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
 - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
 - d. Inquiring or securing Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.
9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.
10. **In case advance payment was made or given, failure to perform or deliver any of the obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert signatory's legal capacity]

Affiant

[Jurat]

[Format shall be based on the latest Rules on Notarial Practice]

GPPB Resolution No. 16-2020, dated 16 September 2020

