### 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** 

November 13, 2023

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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





## 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)

1. 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.** 

2. 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	1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller  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:	4,380,000.00	DA RFO 5, San Agustin, Pili Cam. Sur	120 calendar days upon receipt of NTP

	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		
2	1 unit - Biosafety Cabinet	1,050,000.00	
	Class II, Type A2 Biosafety Cabinet with 5KVA AVR	_,000,000	
	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		

	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			
3	3 units - Analytical Balance	190,000.00/		
	With built-in application programs	per unit		
	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			
4	2 units - Laboratory Oven	200,000.00/		
	Capacity: 65L	per unit		
	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			
5	services 2 units - Toploading Balance	100 000 00 /		
3	Weighing Capacity: 6,200g	100,000.00/		
	Readability: 0.01g	per unit		
	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			
6	1 unit - Water Purifier	765,000.00		
	Water Purification System, Type 1 and Type 2	, 03,000.00		
	Flow rate: 1L/min (Type 1)			
	Permeate Flow: 16L/hour (Type 2)			
	Includes internal leal detector			
	System alerts when filters need replacement comes			
	complete with:			
	1 local RO System as pretreatment			
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	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		
7	1 unit - Laboratory Mill for high and low fat/moisture	850,000.00	
,	content	030,000.00	
	Content		
	1 unit laboratory mill for high for high maigture		
	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		
8	1 unit - Orbital Shaker	340,000.00	
	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:		
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	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		
9	1 unit - Laboratory Glassware Washer	1,525,000.00	
9	Materials:	1,323,000.00	
	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		
10	1 year warranty on parts and services	44000000	
10	2 units - Magnetic Stirrer with Heating Ceramic Plate	110,000.00 /	
	Ceramic Digital Stirring hotplate	per unit	
	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		
	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	

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	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		
	TOTAL FOR LOT 3	900,000.00	
	LOT 4		
14	1 unit - Muffle Furnace		
	External Material: cold-rolled steel with anti-bacterial	440,000.00	
	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		
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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  Power supply: 220/380V, 50/60 Hz  Daniel 200,000.00/ With remote control panel	
proper operation of unit Minimum of 1 year warranty on parts, maintenance and services  15 2 units - Digital Burette With remote control panel  proper operation of unit  200,000.00/ per unit	
Minimum of 1 year warranty on parts, maintenance and services  15 2 units - Digital Burette 200,000.00/ With remote control panel per unit	
services  15 2 units - Digital Burette 200,000.00/ With remote control panel per unit	
15 2 units - Digital Burette 200,000.00/ With remote control panel per unit	
With remote control panel per unit	
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	
16 2 units - DISINFECTING AND HARMLESS ULTRAVIOLET 260,000.00/	
LAMP per unit	
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	
TOTAL FOR LOT 4 1,360,000.00	
LOT 5	
15 1 1 2 2 2 2 2 2	
17   1 unit - ELISA Reader   400,000.00	
17   1 unit - ELISA Reader   400,000.00   ELISA Strip Reader for Aflatoxin Analysis	
ELISA Strip Reader for Aflatoxin Analysis	
ELISA Strip Reader for Aflatoxin Analysis Microwell Reader, 12-well strip carrier	
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	
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	
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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	
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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	
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  TOTAL FOR LOT 5  400,000.00	
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  TOTAL FOR LOT 5  400,000.00  LOT 6  18 1 unit - LABORATORY REFRIGERATOR	
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  TOTAL FOR LOT 5  400,000.00  LOT 6	
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  TOTAL FOR LOT 5  400,000.00  LOT 6  18 1 unit - LABORATORY REFRIGERATOR Capacity 100L 250,000.00	
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  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	
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  TOTAL FOR LOT 5  400,000.00  LOT 6  18 1 unit - LABORATORY REFRIGERATOR Capacity 100L Capacity 100L Temperature range 2 C to 8C 3 shelves; R600a refrigerant	
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  TOTAL FOR LOT 5  400,000.00  LOT 6  18	
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  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	
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  TOTAL FOR LOT 5  400,000.00  LOT 6  18	

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	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)	5,200,000.00	
	specs:	5,200,000.00	
	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-lr 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 rae setting		
	(0.1L/min step),		
	manual support gas flow rate setting, automatic search of		
	optimum gas flow rate or better		
	opvinium gao no m rate or socie.		
	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		
	•		
	Furnace		
	Heating Temperature range: Ambient to 3,000 °C or		
	better		
	Safety measures (Furnace):		
	Cooling water flow rate monitor		
	gas pressure monitor		
	overcurrent protection unit		
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	Furnace block check		
	or equivalent		
	Power Requirements:220VAC ±5%, 7400 VA, 50/60 Hz		
	or equivalent		
	DIMENSIONS and WEIGHT: 230W: 560D X 506 H mm,		
	50Kg or equivalent		
	bong or equivalent		
	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		
	momor ramp warming up-ume		
	Aggagarias		
	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		
	Other Accessories:		
	Hydride Vapor Generator Unit, HVG-100 or equivalent		
	Mercury Vaporizer or equivalent		
	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		
	and printing supplied		
20	2 units - Autoclave (Pressure Cooker Type)	361,500.00/	
20	1	•	
	specs: Temperature Controller: Digital PID Controller	per unit	
	Using Press: 0.1177 to 0.1274 MPa (1.2 to 1.3 kg/cm2)		
	Pressure Gauge: Mechanical type 0 to 0.3 MPa		
L	i ressure dauge. Mechanical type o to 0.5 Mra		

	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			
21	4 units - Showcase Chiller; Capacity: 22 cu.ft.;	114,000.00/		
	With 7 level Electronic Temperature Control;	•		
	LCD Temperature Display;	per unit		
	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			
22	1 unit – UV-Vis Spectrophotometer	1,235,000.00		
		1,200,000,000		
	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			
	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			
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	controlled			
	controlled Display: 24-bit color touch screen or better			
	controlled			

	Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer 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	7,864,000.00	
	LOT 7		
23	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	2,800,000.00	
	TOTAL FOR LOT 7	2,800,000.00	
	LOT 8		
24	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 & Material: Stainless Steel SUS304, shiny polished. Molded silicon rubber gasket (self-seal system) Outer panel: Steel with baked melamin finish.	700,000.00/ per unit	

	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  TOTAL FOR LOT 8	1,400,000.00	
	LOT 9		
25	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	800,000.00	
	TOTAL FOR LOT 9	800,000.00	
	LOT 10	400,000,00	
26	1 unit - AIRBORN SURFACE DISINFECTION SYSTEM Portable disinfection nebulizer of airborn 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	400,000.00	
	TOTAL FOR LOT 10	400,000.00	

	LOT 11		
27	1 unit – Blender/Hemogenizer High performance Blender/Hemogenizer for small and standard sample preparation digital control and LCD display 2x 16 character alphanumerical 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	390,000.00	
	TOTAL FOR LOT 11	390,000.00	
	LOT 12		
28	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	210,000.00	
29	1 unit - DIGITAL MICROSCOPE WITH CAMERA, accessories and LAPTOP Binocular, integraded 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,	200,000.00	

	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		
30	1 unit - BINOCULAR COMPOUND MICROSCOPE	10000000	
	microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with	100,000.00	
	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		
31	1 unit - Microscope,		
31	specs: binocular microscope with	68,044.00	
	WF10x/20 mm eyepieces, SMP	00,011.00	
	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		
	TOTAL FOR LOT 12	578,044.00	
	LOT 13		
32	LOT 13  1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type		
32	1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type B1/B2 Cabinet, Dimensions:30(L) x 53(W) x	616,646.00	
32	1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type	616,646.00	
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)	616,646.00	
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	616,646.00	
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)	616,646.00	
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	616,646.00	
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)	616,646.00	
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	616,646.00	
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	616,646.00	
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	616,646.00	
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	616,646.00	
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	616,646.00	
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%	616,646.00	
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	616,646.00	
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	616,646.00	
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	616,646.00	
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.	616,646.00	
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/	616,646.00	
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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,	616,646.00	
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	616,646.00	

			T	, ,
	Neoprene, Spring-loaded, Fumigation ;4 feet (1.2M);			
	with support stand with caster wheels, UV lamp,			
	automatic voltage regulator			
	2 years warranty on parts and services			
	Inclusion with 2 years certification and decontamination			
	and 1 set of laboratory chair			
	With Installation and training on operations and			
	maintenance.			
33	1 unit - GENERAL PURPOSE OVEN 54 L chamber			
	capacity, 220-240 VAC; 50/60 HZ 1 phase power supply.	310,000.00		
	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			
	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			
	warranty. 2 years			
	TOTAL FOR LOT 13	026 646 00		
	TOTAL FOR LOT 13	926,646.00		
	LOT 14	920,040.00		
24	LOT 14			
34	LOT 14  1 unit - Gas Chromatography tandem Mass	12,000,000.00		
34	LOT 14			
34	LOT 14  1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)			
34	LOT 14  1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)  Mass Spectrometer:			
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34	LOT 14  1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)  Mass Spectrometer: Ionization sources: EI, Chemical Ionization must be			
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Collision cell: Must use a travelling wave voltage for rapid, axial transport of ions through the device

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 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

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-

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

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			
	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.			
	Inclusions:			
	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			
35	1 unit - qPCR Machine	1,895,000.00		
		•		
	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 dves (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

Applications: Relative and Absolute Quantification Analysis, Melting Peak Analysis, Endpoint Genotyping Analysis, High Resolution Melting (HRM)

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)

#### Inclusions:

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** 

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

System to inject an atmosphere or to pull a vacuum into

the reader Incubation

+3 °C above ambient up to 45 °C"

			1
	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		
	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		
	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)		
	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		
	Joopes, bag		
	TOTAL FOR LOT 14	13,895,000.00	
	LOT 15		
	LOT 15		
36	1 unit - Stereo Zoom Microscopes	180,000.00	
	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:		
1			
	CMOS, Live Resolution: 2.0MP (1600x1200), Optical Calculation: 1/3", Output: MiniUSB, Focusable lens:		

	12mm, 2 variable diameter eyepiece adapters, Macro		T
	tube for specimen's observation, with computer set.		
37	1 unit - EC Meter	71,160.00	
37	1 unit - EC Meter	/1,100.00	
	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 t o 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, calue 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 Candi ation With Certificate of Distributorship from Manufacturer		
38	1 unit – Fumehood (PERCHLORIC ACID)	3,000,000.00	
30	1 unit - Fumenoou (FERCHLORIC ACID)	3,000,000.00	
	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		
	Sash/ Door, Vertical folding type, Air velocity 0.5 m/s		
	N. I. I. CE IDA CI I. M. I I		
	Noise Level, 65 dBA, Glass window-Two layer toughen		
	glass, 5 mm thickness Adjustable height, Motor control, Make up air		
	Adjustable lieight, Motor Control, Make up an		
	Air needed to replace the air exhausted from a room by		
	the fume hood and other ventilation devices		
	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)		
<u> </u>	L units iau. Gait, stanness steer (3 layers)		

	2 units lab Designator salainet tura (2 lavore)		
	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)		
39	2 units - Benchtop pH/mV meter	180,000.00/	
		per unit	
	Temperature compensation: Automatic	1	
	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		
40	1 unit - Toploading Balance	82,000.00	
	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		
41	1 unit - Analytical Balance,	95,000.00	
71	1 unit - Analytical Balance,	73,000.00	
	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		
		•	1
	Weighing pan size: 90mm diameter minimum		
	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better		
	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt		
	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes:		
	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning		
	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning - Certificate of Calibration		
42	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning	180,000.00	
42	Weighing pan size: 90mm diameter minimum Weighing chamber height: 240 mm or better Power: Autovolt Includes: - Installation and Commissioning - Certificate of Calibration	180,000.00	

	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 lon 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		
	TOTAL FOR LOT 15	3,968,160.00	
	LOT 16		
43	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	139,250.00	
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	278,900.00	

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

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).

3. 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.

- 4. 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*.
- 5. 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	<b>₱</b> 5,000.00
LOT 3	900,000.00	₱ 1,000.00
LOT 4	1,360,000.00	<b>₱</b> 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	<b>₱</b> 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 3<sup>rd</sup> 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 3<sup>rd</sup> 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: <a href="mailto:bacrfo5@gmail.com">bacrfo5@gmail.com</a>

For downloading of Bidding Documents: <a href="https://www.dabicol.gov.ph">www.dabicol.gov.ph</a>

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 "I" 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 <u>DA RFO 5</u>, <u>San Agustin</u>, <u>Pili</u>, <u>Camarines Sur</u> and/or through videoconferencing/webcasting as indicated in paragraph 6 of the <u>Section I</u>. <u>Invitation to Bid</u>.

#### 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, exwarehouse, 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

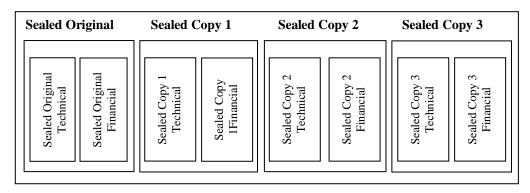
- 14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until **April 2, 2024** (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 sideend 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 maybe. 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 <u>One Project having several items grouped</u> 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	1			
Clause				
Clause				
5.3	For this purpose, contracts similar to the Project shall be:			
	a. Technical and Scientific Equipment			
	b. Completed within <i>Two (2) years</i> prior to and receipt of bids.	the deadline for the submission		
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	The bid security shall be in the form of a Bid Se following forms and amounts:	curing Declaration, or any of the		
10.2	<ul> <li>a. The amount of not less than (2%) 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, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than (5%) 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, if bid security is in Surety Bond.</li> </ul>			
19.3	Partial bid is allowed.			
	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		

LOT 11  LOT 12  LOT 13  926,640  LOT 14  13,895,000  LOT 15  3,968,160  LOT 16  GRAND TOTAL  P50,000,000  20.2  The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For Face of Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		
LOT 12  LOT 13  926,640  LOT 14  13,895,000  LOT 15  3,968,160  LOT 16  GRAND TOTAL  P50,000,000  20.2  The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For Face Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		T 10 400,000.00
LOT 13  LOT 14  LOT 15  3,968,166  LOT 16  GRAND TOTAL  P50,000,000  20.2  The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For I Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		OT 11 390,000.00
LOT 14  LOT 15  GRAND TOTAL  20.2  The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For I Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		OT 12 578,044.00
LOT 15 LOT 16 GRAND TOTAL P50,000,000  20.2 The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approach highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For Face Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		OT 13 926,646.00
DOT 16  GRAND TOTAL  20.2  The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approach the Director or RTD for government contract and with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For I Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		T 14 13,895,000.00
The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the appropriate Director or RTD for government contract and with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For Face Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		T 15 3,968,160.00
20.2 The bidder shall submit:  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 I Completed Contract (SLCC) duly signed by the end-user with the approval highest-ranking official for private contract h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For I Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]		OT 16 418,150.00
<ul> <li>a. Certificate of Availability of Stocks</li> <li>b. Certificate of Authority to Supply and to bid from the source</li> <li>c. Certification as to dealership or distributorship</li> <li>d. Warranty Certificate</li> <li>e. Latest Income Tax Return</li> <li>f. Latest VAT Payment</li> <li>g. Performance Evaluation Report (at least very satisfactory) of Single I Completed Contract (SLCC) duly signed by the end-user with the appropriate Director or RTD for government contract and with the approval highest-ranking official for private contract</li> <li>h. Attachment of SLCC [Notice of Award, Contract or PO, Notice to Proce Inspection and Acceptance (COA Form) (if government), For I Contract: Contract/PO and Delivery Receipt with Proof of Acceptance]</li> </ul>		RAND TOTAL P50,000,000.00
		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] ii. Other requirements peculiar to the procurement project under consideration
21.2 No further instruction	21.2	further instruction

## 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.

**Special Conditions of Contract** 

	Special Conditions of Contract
GCC Clause	
1	Delivery and Documents –
	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:
	[For Goods supplied from within the Philippines, state:] "The delivery terms applicable to this Contract are delivered to <b>Department of Agriculture RFO 5</b> , <b>San Agustin, Pili, Camarines Sur</b> . Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination."
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in <b>Section VI</b> ( <b>Schedule of Requirements</b> ).
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is Ms. Cristina E. Borja, Property Officer
	Incidental Services –
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements: 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
	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
	Spare Parts –
	<ul> <li>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</li> <li>b. in the event of termination of production of the spare parts: <ol> <li>advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to</li> </ol> </li> </ul>
	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.

	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.  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.
	Intellectual Property Rights –
	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.
2.2	The terms of payment shall be in <b>full payment</b> after completion of the delivery duly inspected by the inspector and by Focal Person or its representative.
4	The inspections that will be conducted are based on the minimum specifications required as indicated in the Technical Specifications.

## 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	<b>Statement of Compliance</b>
1112141		Statement of Compitance
		[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 crossreferenced 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 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.]
	LOT 1	
1	1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller	
	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:	
	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	
	1 unit - Biosafety Cabinet	
2	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	
	Intrinsically-safe negative pressure design	
	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	
3	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	
4	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	
	2 units - Toploading Balance	
5	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	
	1 unit - Water Purifier	
6	Water Purification System, Type 1 and Type 2	
	Flow rate: 1L/min (Type 1)	
	Permeate Flow: 16L/hour (Type 2)	
	Includes internal leal detector	
	System alerts when filters need replacement comes complete	
	with:	
	1 local RO System as pretreatment	
	2 sets additional pretreatment cartridges	

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	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	
7	1 unit - Laboratory Mill for high and low fat/moisture content	
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	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	
_	1 unit - Orbital Shaker	
8	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	
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9	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	
10	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	
	man en	
	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	

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	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	
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	
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	Tyear warrancy on parts and services	
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	LOT 3	
13	LOT 3  1 unit - UV-VIS Spectrophotometer	
13	LOT 3  1 unit - UV-VIS Spectrophotometer Use of long-life Xenon flash lamp	
13	LOT 3  1 unit - UV-VIS Spectrophotometer Use of long-life Xenon flash lamp Double-beam optical system	
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	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	
	1 year warranty on parts and services	
	LOT 4	
	1 unit - Muffle Furnace	
14	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	
15	2 units - Digital Burette	
13	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	
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.	
	with installation and training on operations and maintenance.  warranty: 2 years	
	LOT 5	
	1 unit - ELISA Reader	
17	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	
	Transmitted of Types Warrancy on participant and managed and sorvices	
	LOT 6	
	1 unit - LABORATORY REFRIGERATOR	
18	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  1 unit - Atomic Absorption Spectrophotometer (with complete	
19	accessories)	
	specs:	
	Wavelenght 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-lr capillary, PTFE orifice, ceramic impact bead	L

(capable of handling HF acid) or better

Chamber: Engineering plastics or equivalent

Flow rate control: Automatic fuel gas flow rae setting (0.1L/min step),

manual support gas flow rate setting, automatic search of optimum gas flow rate or better

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

#### **Furnace**

Heating Temperature range: Ambient to 3,000 °C or better

Safety measures (Furnace):

Cooling water flow rate monitor

gas pressure monitor

overcurrent protection unit

Furnace block check

or equivalent

Power Requirements:220VAC ±5%, 7400 VA, 50/60 Hz or equivalent

<code>DIMENSIONS</code> and <code>WEIGHT</code>: 230W : 560D X 506 H mm, 50Kg or equivalent

#### 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

#### 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;

		I
	calcium, copper, cobalt, zinc, sodium, potassium, magnesium,	
	manganese, arsenic, cadmium, iron, lead, mercury	
	Exhaust system (Canopy Hood, Exhaust fan and Hood)	
	UPS	
	Multiple Outlet	
	Manage outlet	
	Oth an A according	
	Other Accessories:	
	Hydride Vapor Generator Unit, HVG-100 or equivalent	
	Mercury Vaporizer or equivalent	
	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	
	2 units - Autoclave (Pressure Cooker Type)	
20	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	
	4 units - Showcase Chiller; Capacity: 22 cu.ft.;	
21	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	
22	1 unit – UV-Vis Spectrophotometer	
	M. J. J. D. 400: 4400	
	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 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 Operational Accessories; With Sipper Unit Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer 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 **LOT 7** 1 unit - AUTOMATED EXTRACTION MACHINE 23 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.

	warranty:2years	
	LOT 8	
24	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 & Amp; 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	
	LOT 9	
25	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	

	LOT 10	
26	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	
	LOT 11	
27	1 unit – Blender/Hemogenizer High performance Blender/Hemogenizer for small and standard sample preparation digital control and LCD display 2x 16 character alphanumerical 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	
	LOT 12	
28	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	

29	1 unit - DIGITAL MICROSCOPE WITH CAMERA, accessories and LAPTOP	
	Binocular, integraded 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,	
	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	
30	1 unit - BINOCULAR COMPOUND MICROSCOPE	
30	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	
	1 unit - Microscope,	
31	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	
	LOT 40	
	LOT 13	
22	1 unit - Biosafety Cabinet (BSC) Class II Type A2/ Type B1/B2	
32	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	

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	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 parts and services	
	Inclusion with 2 years certification and decontamination and 1	
	set of laboratory chair	
	With Installation and training on operations and maintenance.	
22	1 unit - GENERAL PURPOSE OVEN 54 L chamber capacity, 220-	
33	240 VAC; 50/60 HZ 1 phase power supply.	
	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	
	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	
	LOT 14	
	1 unit - Gas Chromatography tandem Mass Spectrometry(GCMS)	
34	1 and das on omatography tandem mass spectrometry (doms)	
	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 escess	
	fragmentation while retaining high chromatographic	
	performance	
	El 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 - centered design and	
	are only able to be assembled one way, reducing training time	
	and errors in re-assembly"	
	<del></del>	

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

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 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:  $\pm < 0.1 \text{ u/}24 \text{ hour period}$ 

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  $\mu L$  of 10 fg/ $\mu L$  octafluoronaphthalene will give a chromatographic signal-to-noise greater than 1600:1 for the transition of m/z 272>222

MRM Sensitivity (PCI): 1  $\mu L$  of 100 fg/ $\mu L$  Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105

Scanning Sensitivity (EI): 1  $\mu$ L of 1 pg/ $\mu$ L of octafluoronaphthalene will give a chromatographic signal-tonoise greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550

SIR sensitivity (NCI): 1  $\mu L$  of 100 fg/ $\mu L$  octafluoronaphthalene will give a chromatographic signal-to-noise greater than 2000:1 for m/z 272

Weight: Must not exceed 135 Kg.

#### **Inclusions:** 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 1 unit - qPCR Machine 35 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 Applications: Relative and Absolute Quantification Analysis,

Melting Peak Analysis, Endpoint Genotyping Analysis, High

Resolution Melting (HRM)

 $Sensitivity: 1.1 \ fold \ discrimination, 9-log \ dynamic \ range, Single$ 

copy detection

Connection options: LAN, Direct connection to computer (RJ45),

PC-free (USB stick/flash drive controlled)

#### **Inclusions:**

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** 

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

System to inject an atmosphere or to pull a vacuum into the

reader

Incubation

+3 °C above ambient up to 45 °C"

The upper heating plate of the incubation chamber operates at  $0.5\,^{\circ}\text{C}$  more than the lower plate. This prevents condensation build-up on the lid or sealer

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

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. IsoFreeze 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)	
	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	
	LOT 15	
	LOT 13	
36	1 unit - Stereo Zoom Microscopes	
30		
	Specs: Greenough zoom optical system, trinocular head,	
	35°inclined, 360°rotating, 100:0 (eyetubes), 50:50 (trinocular	
	tube/right eyetube) optical split.	
	n	
	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 - EC Meter	
37	1 mm 20 1 10001	
	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	
	t o 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, calue 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	

38	1 unit – Fumehood (PERCHLORIC ACID)	
	MOC CDCA 10C Engry payed on coated Stand MS nine 10 C	
	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	
	Motor blower assembly covered with Gr sheet	
	Sash/ Door, Vertical folding type, Air velocity 0.5 m/s	
	Noise Level, 65 dBA, Glass window-Two layer toughen glass, 5	
	mm thickness	
	Adjustable height, Motor control, Make up air	
	Air needed to replace the air exhausted from a room by the fume	
	hood and other ventilation devices	
	Thousand other ventuation devices	
	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)	
39	2 units - Benchtop pH/mV meter	
37		
	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	
	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	
	<ul> <li>- Universal power supply</li> <li>- pH electrode</li> <li>- Buffer solutions</li> <li>- Electrolyte solution</li> <li>- Installation and Commissioning</li> <li>- Certificate of Calibration</li> </ul>	

-		
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.	
	Calibration: Internal with AVR	
	1 unit - Analytical Balance,	
41	1 unit - Analytical Balance,	
	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	
42	1 unit - pH 2700 Meter With pH Electrode	
72	ATTOR A	
	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	
	LOT 16	
43	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  Mith Class 2 into material in demand and to make a section of the desired and the section of the	
	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	
	1 unit - Reciprocating Horizontal Mechanical Shaker:	
44	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	
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	
*Bidd	ler/s may attach the above mentioned <u>documents</u> but not be a ground	for disqualification during the
	bid opening.	<b>_</b>

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

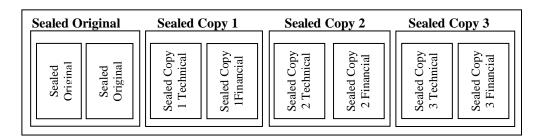
Signature over Printed Name of Authorized Representative _	
Date:	

# 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;

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

Financial Documents The prospective bidder's computation of Net Financial Contracting Capacity  $\Box$  (k) (NFCC); or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation. Class "B" Documents  $\square$  (1) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence; 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. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity. II. FINANCIAL COMPONENT ENVELOPE

Original of duly signed and accomplished Financial Bid Form; and

Original of duly signed and accomplished Price Schedule(s).

□ (b)

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.

## 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 Amount and Purpose of	Ť		
of agentCurrencyCommission or gratuity			
(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].

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

Page 19 of 39

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 G	oods Offered	from Ab	road		
ame	of Bidder _				Project II	O No	Page _	of
	ı		Г		Г			
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)
ame:								
egal (	Capacity: _							
gnatı	ure:							

# 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	Transportatio n 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	1 unit - Kjeldahl Digestor with Scrubber and Kjeldahl Distillation Unit with Benchtop Chiller		1 unit						
	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:					
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					
V V	<u> </u>	1	l .		

		1		1	1		1
	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						
2	1 unit - Biosafety		1 unit				
	Cabinet						
	Class II, Type A2						
	Biosafety Cabinet						
	with 5KVA AVR						
	Nominal Width: 4'						
	Nominal Sash						
	Opening: 8" (20 cm)						
	Base Stand:						
	Included						
				92			

				1	ı		
	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						
$\vdash$	services	<del>                                     </del>	• •				
3	3 units - Analytical		3 units				
	Balance						
	With built-in						
	application						
	programs						
	With exceptional						
	monolithic weigh						
	and the weight						
	cell						
	With standard						
	internal, motorized						
	calibaration						
	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)						
i 1	رحع/			l .	<u>I</u>		

	Response time				
	(sec.): 2.5sec.				
	Calibration: Internal				
	Power Supply:				
	220V COLL WELL				
	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				
4	2 units - Laboratory	2 units			
4		2 units			
	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				
5	2 units - Toploading	2 units			
	Balance	Z dilito			
	Weighing Capacity:				
	6,200g				
	Readability: 0.01g				
	Pan size (mm): 180				
	x 180 mm dia				
	Repeatability: 0.01g				
	Linearity: 0.02g				
	Doggana Time				
	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	T				
	Minimum of 1 year					
	warranty on parts,					
	maintenance and					
	services		1			
6	1 unit - Water	1 unit				
	Purifier					
	Water Purification					
	System, Type 1 and					
	Type 2					
	Flow rate: 1L/min					
	(Type 1)					
	Permeate Flow:					
	16L/hour (Type 2)					
	Includes internal					
	leal 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					
7	1 unit - Laboratory	1 unit				
'		ı unit				
	Mill for high and low					
	fat/moisture content					
	4 911 4 99					
	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					
			86			

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	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								
0	and services	<del>                                     </del>	4						
8	1 unit - Orbital Shaker		1 unit						
	Snaker Full-color								
	touchscreen display								
	touonoorcon display	1		87					<u> </u>

	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/Compl							
	iance: 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							
9	1 unit - Laboratory		1 unit					
	Glassware Washer		i uiiit					
	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							
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						,
	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					
10			0!4-			
10	2 units - Magnetic		2 units			
	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 aver					
	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								
	TOTAL for LOT 1								
	LOT 2								
11	1 unit - Fiber	]	1 unit						
	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								
12	1 unit - Fat	]	1 unit						
	Extractor with								
	Benchtop Chiller								
				1	1	l .	1	1	l .

						T	
	1 unit fully						
	automated fat						
	extractor using						
	Filter Bag						
	Technology						
	Sample size: 1.0 -						
	3.0 grams						
	Fat/Ōil 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				 		
	TOTAL FOR LOT 2						
	LOT 3						
13	1 unit - UV-VIS		1 unit				
	Spectrophotometer						
	Use of long-life						
	Xenon flash lamp						
	Double-beam						
	optical system Automatic 6-cell						
	turret						
	Technical						
	Specifications:						
		l l		91		t	

Optical System: Czerny - Tumer mount Double beam Wavelenigth Range: 130 to 1100 nm Spectral band width: 1mm Wavelenigth accuracy: 2 0.3 nm (a) Xa 250.6, 484.3, 851.9 nm, 149 201.7, 435.6, 546.1 Wavelenigth repealability: 40.1 nm Photometric Accuracy: 4.0002 Abs (0-0.5 Abs): 4.00.4 Abs (08-10 Abs) Photometric Repeabability: 4.0002 Abs (0-10 Abs) Scan speed: 10, 40, 100, 200, 400, 100, 200, 400, 100, 200, 400, 100, 200, 400, 100, 200, 400, 100, 100, 100, 100, 100, 100, 100, 1						
Czerny - Turner mount Double beam Waveleegigh Range: 190 to 1100 nm Spectris band width: 1 nm Waveleegigh accuracy: ± 0.3 nm (at X ≥ 20.6, 484.3, 881 3 nm; Hg 25.37, 435.8, 45.61 nm) Waveleegigh repeatability: ±0.1 nm Photometric Accuracy: ± 0.002 Abs (0.45 Abs); ±0.004 Abs (0.61-0) Abs) Photometric Repeatability: ±0.1 nm Photometric Repeatability: ±0.1 nm Photometric Repeatability: ±0.002 Abs (0.45 Abs); ±0.004 Abs (0.61-0) Abs) Scan speed: 10, 40, 100, 20b, 40, 800, 100, 20b, 400, 800, 100, 20b, 400, 800, 100, 20b, 400, 800, 100, 20b, 40b, 800, 100, 80b, 800, 100, 80b		Optical System:				
mount Double beam Wavelength Range: 190 to 1100 mm Spectral band width: 1 mm Wavelength 1 mm May		Czerny - Turner				
beam Wavelength Range: 190 to 1100 nm Spectral band width: 1 nm Wavelength accuracy: ± 0.3 nm (clAt 260.6, 484.3, 881 9 nm; Hg 2537, 438.3, 56.6.1 nm) Wavelength repeatability: ±0.1 nm Photometric Accuracy: ±0.002 Abs (0.0.5 Abs); ±0.004 Abs (16-1.0) Abs) Photometric Repeatability: ±0.1 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 240, 400, 8000 nm/min Wavelength drive speed: 5500 nm/min Response: Past Macallity: 800, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 100, 800, 800, 100, 800, 800, 800, 100, 800, 800, 800, 100, 800, 800, 800, 800, 800, 800, 800,						
Wevelength Range: 190 to 1100 nm Spectral band wdth: 1 mm Wavelength accuracy: ± 0.3 nm (at № 280 5, 484 3, 881 9 mm. Ha 253 7, 458 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 (0.0 5, Abs); ±0.004 Abs (0.6-1.0 Abs) Scan speed: 10, 40, 100, 200, 400, 000, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 5800 nm/min Wavelength drive Baseline Stability: 0.0005 Abs/sh (at 250 nm) Noise level (RMS): 0.0001 Abs (RMS 250mn, 0 Abs) Baseline Bataleity: 0.0005 Abs/sh (at 250 nm) Noise level (RMS): 0.0001 Abs (RMS 250mn) Light source (warranty period): Xanon Bash lamp 5W1 (7 years) Call Hoider: Automatic 6-cell turret Detactor: Silicone photodode Measurement modes: Concentration measurement mitance, Nucleic aidi, wavelength scan, time scan, monitor						
190 to 1100 nm   Spectral band   width: 1 nm   Wavelength   accuracy: ± 0.3 nm   (at X 280.6., 484.3., 881.9 nm; Ho   25.37, 438.8.56.1 nm)   Wavelength   repeatability: ±0.1 nm   Photometric   Accuracy: ±0.02						
Spectral band width: 1 mm Wavelength accuracy; ± 0.3 mm (at Xe 260, 6.484, 3.881, 9 mm, Hq 2537, 458, 546.1 mm) Wavelength repeatability; ±0.1 mm Photometric Accuracy; ± 0.002 Abs (0.05, Abs); ± 0.004 Abs (0.6-1.0 Abs) Photometric Repeatability; ± 0.002 Abs (0.1-0 Abs) Photometric Repeatability; ± 0.002 Abs (0.1-1.0 Abs) Scan speed: 10, 40, 100, 200, 400, 400, 1200, 2400, 4800, 240						
width: 1 mm  Wavelength accuracy: ± 0.3 nm (ct Nz 260, 6, 494 3, 881 9 nm; Hg 25.37, 43.58, 54.6.1 nm) Wavelength repeatability: ± 0.1 nm Photometric Accuracy: ± 0.002 Abs (G-0.5 Abs); ± 1.0 0.4 Abs (0.6-1.0 Abs) Photometric Repeatability: ± 0.40, 100, 200, 400, 800, 120, 2400, 400, 5000 um/min Wavelength drive speed: 8500 rm/min Wavelength drive speed: 8500 rm/min Noise level (RMIS): 0.0005 Abs/II (at 260 nm) Noise level (RMIS): 0.0007 Abs (RMIS 260nm, 0 Abs) Baseline fatness: ± 0.0009 Abs (200 to 950nm) Light source (warrarty period): Xenon flash lamp SW7 (years) Cell Hoider: Automatic G-cell turret Detector: Silicone photodiode Measurement modes: Concentration measurement, Absorbance Trans mittance, Nucleic aidd, wavelength scan, time scan, monitor						
Wavelength accuracy ± 0.nm (at № 260 6, 484 3, 881 9 nm ) Hg 253 7, 435 8, 546.1 nm) Wavelength repeatability: ±0.1 molometric Accuracy: ±0.002 Abs (0.4 5 As bs); ±0.004 As bs); ±0.004 As bs); ±0.004 As bs); ±0.004 As bs (0.4 5 As bs); ±0.004 Abs (0.4 5 As bs); ±0.004 Abs (0.4 5 As bs); ±0.004 Abs (0.4 5 As bs); ±0.002 Abs (0.4 5 As bs); ±0.009 Abs (0.4		Spectral band				
accuracy: ± 0.3 mm (at x 260 6. 484 3, 881 9 mm; Hg 25.37, 43.8, 54.6.1 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) Photometric Repeatability: ±0.002 Abs (0.1-0 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 88000 nm/min Wavelength drive Speed: 88000 nm/min Nesselente Slability: 0.0005 Abs/mit (260 nm) Noise level (RMS): 0.0005 Abs/mit (260 nm) Noise level (RMS): 0.0005 Abs/mit (260 nm) Light source (warranty period): Xenon flash lamp SW (7 years) Cell Holder: Automatic 6 cell turret Detector: Silcone photodical measurement modes: Concentration measurement mitance, Nucleic acid, wavelength scan, time scan, monitor		width: 1 nm				
accuracy: ± 0.3 mm (at x 260 6. 484 3, 881 9 mm; Hg 25.37, 43.8, 54.6.1 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) Photometric Repeatability: ±0.002 Abs (0.1-0 Abs) Scan speed: 10, 40, 100, 200, 400, 800, 1200, 200, 400, 800, 1200, 2400, 4800, 6000 nm/min Wavelength drive speed: 88000 nm/min Wavelength drive Speed: 88000 nm/min Nesselente Slability: 0.0005 Abs/mit (260 nm) Noise level (RMS): 0.0005 Abs/mit (260 nm) Noise level (RMS): 0.0005 Abs/mit (260 nm) Light source (warranty period): Xenon flash lamp SW (7 years) Cell Holder: Automatic 6 cell turret Detector: Silcone photodical measurement modes: Concentration measurement mitance, Nucleic acid, wavelength scan, time scan, monitor		Wavelength				
(at Xe 260.6, 484.3, 881.9 mm, High 253.7, 435.8, 546.1 mm)  Wavelength repeatability: ±0.1 mm  Photometric Accuracy: ±0.002. Abs (0-0.5 Abs): ±0.004 Abs (0-6-1.0 Abs): ±0.004 Abs (0-6-1.0 Abs)  Photometric Repeatability: ±0.10 Abs)  Photometric Repeatability: ±0.002 Abs (0-1.0 Abs)  Scan speed: 10, 40, 100, 200, 400, 800, 100, 2400, 400, 800, 100, 2400, 400, 800, 100, 2400, 400, 6000 mm/min  Wavelength drive speed: \$500 mm/min  Response: Fast, Medium, Slow Baseline Stability: 0.0005 Absh (at 260 mm) Noise level (RMS): 0.0005 Absh (at 260 mm) Noise level (RMS): 0.0005 Absh (at 260 mm) Abs (RMS 260mm, O Abs) Baseline flathess: ±0.0009 Abs (200 to 950nm) Light source (warranty period): Xenon flash lamp SW (7 years) Cell Holder: Altomatic 6-cell furnet Detector: Silicone photodiode Messurement modes: Concentration messurement, Absorbaneol Trans mittance, Nucleic acid, wavelength scan, innel scan, monitor						
881.9 mm; Hg 2537, 4358, 646.1 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: 85000 nm/min Response: Fast, Medium, Slow Baseline Stbiility; 0.0005 Abs/n (at 280 nm) Noise level (RMS); 0.0001 Abs (RMS) 280 nm) Abs (BMS) Baseline flatness: ±0.0009 Abs (200 to 950 nm) Light source (warranty period); Xenon flash lamp SW (7 years) Cell Holder: Automatic 6-cell turret Detector: Silicone photodiode Measurement modes: Concentration						
253.7, 435.8, 546.1 mm) Wavelength repeatability: ±0.1 mm Photometric Accuracy: ±0.002 Abs (0-0.5 Abs): ±0.004 Abs (06-1.0 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 mm/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 fisherses: ±0.0009 Abs (200 to 950nm) Light source (warranty period): Xenon fash lamp SW (7 years) Cell Holder: Automatic 6-cell turret Detector: Silicone photocitode Measurement modes: Concentration measurement, AbsorbenectTrans mittance, Nucleic acid, wavelength scan, monitor						
mm)  Wavelength repeatability: ±0.1 nm Photometric Accuracy: 20.002 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 Absh (at 260 nm) Noise level (RMS): 0.0007 Abs (RMS 250nn) D Abs) Baseline flatness: ±0.0009 Abs (200 to 950nn) Light source (warranty period): Xenon fash lamp SW (7 years) Cell Holder Automatic G-cell turret Detector: Silcone photodiode Measurement modes: Concentration nessurement, Absorbance/Trans mittance, Nucleic aicid, wavelength scan, imme scan, momitor						
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scan, time scan, monitor						
monitor						
measurement						
		measurement				

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	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						
	parts and services						
	TOTAL FOR LOT 3						
	LOT 4						
14	1 unit - Muffle		1 unit				
	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			93			

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	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							
1 1	Minimum of 1 year							
	warranty on parts,							
	maintenance and							
	services							
15	2 units - Digital	2 units						
	Burette	_ 4						
	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							
1 1								
1 1	the preventive							
1 1	maintenance and							
1 1	proper operation of							
1 1	unit							
1 1	Minimum of 1 year							
1 1								
1 1	warranty on parts,							
1 1	maintenance and							
igspace	services							
16	2 units -	2 units						
1 1	DISINFECTING							
1 1	AND HARMLESS							
1 1	ULTRAVIOLET							
1 1								
1 1	LAMP							
1 1	wavelength:222nm							
1 1	70nm output (100							
1 1	beam angle) 8							
1 1	5-305 V AC 50/60							
1 1	Hz 17 w power,							
1 1								
1 1	continuous duty							
1 1	cycle, motion							
1 1	activated ;							
1 1	power lead (PVC)							
1 1	3x 0.75 nm (18							
1 1	AWG);							
	, ww O <sub>J</sub> ,		0.4		<u> </u>		l .	

	Mith Installation		1	I		I	
	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		1 unit				
	Absorption						
	Spectrophotometer						
	(with complete						
	accessories)						
	specs:						
	Wavelenght						
	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 LIC						
	Number of HC						
1 1	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						
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Flame					
Burner head:					
Titanium or					
equivalent					
Nebulizer: Pt-I	•				
capillary, PTFI					
orifice, cerami	_				
	<b>,</b>				
impact bead					
(capable of					
handling HF a	cid)				
or better	′				
Chamber:					
Engineering p	astics				
or equivalent					
Flow rate cont	ol:				
Automatic fuel	gas				
flow rae setting					
(0.1L/min step					
manual suppo					
flow rate setting					
automatic sea					
optimum gas f					
rate or better					
Tale of Dellet					
Safety measur	es				
(Flame):					
Automatic exti	nction				
via flame vibra	tion				
sensor					
Automatic gas	loak				
	Ican				
check					
Automatic Air-					
switching as C	2H2				
flow rate incre	ases				
flame monitor					
Prevention of					
incorrect burne	er				
head use					
gas pressure					
monitor					
Drain tank leve	AI .				
monitor	'				
Automatic flam					
extinction upo					
power outage	or				
sudden power					
interruption					
Internal fan sto	n				
	۲				
sensor					
or equivalent					
Furnace					
Heating					
Temperature r	ange.				
Ambient to 3,0	nn				
	00				
°C or better					
Safety measur	es				
(Furnace):					
Cooling water	flow				
rate monitor					
gas pressure					
monitor					
overcurrent					
protection unit					
		 07	 	 	

Funace block check or equivalent  Power Requirements 2:20V AC 4:5%, 7400 VA, 5000 Hz or equivalent DIMENSIONS and WEIGHT: 2:30W: 5500 X 500 H rm; 50Kg or equivalent Software Must be compatible with Microsoft operating system Vivindows 10 minimum Must display mean value, standard develation and coefficient of cartalition and has an automatic exclusion of develative values by setting SD and 5/kg SD Sobol Microsoft operating system Vivindows 10 minimum Must display mean value, standard develation and possible and or coefficient of cartalition of develative values by setting SD and 5/kg SD Sobol Microsoft or proper functioning of lamp, detector, and background corrector before starting analysis Must be able to record the used lamp time (hours) and morning up-time Accessories Compiler PC System: Windows 10: Processor i. 8 G RAId or before Confinency links in the printer Acceptine gas (tank), gas Lines and Regulatior Agen gas (tank), gas Lines and Regulatior Silent type Of-Less					
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Cooling water					
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	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					
	Other Accessories:					
	Hydride Vapor					
	Generator Unit,					
	HVG-100 or					
	equivalent					
	Mercury Vaporizer					
	or equivalent					
	or equivalent					
	Warrant ( 2 vaara					
	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					
20	2 units - Autoclave	2 units				
40		Z uiiitā				
	(Pressure Cooker					
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	specs:		<u> </u>		 <u>                                     </u>	<u>                                      </u>
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Controller Digital PID Controller Using Press 0.117 to 0.1274 MPa (1, 2 to 1.3 kg/cm²) Pressure Gauge Mechanical type 0 to 0.3 MPa Range Max 430°C Sanger Pt-100 Capadity: 100 L Heater 5 KW Infamil Material: Slainless Steel Echramal Material: Slainless Fatty Indianal Material: Slainless Steel Echramal Material: Slainless Fatty Indianal Material: Slainless Fatty Ind								
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Using Press: 0.1177 to 0.1274 MPa (1,2 to 1.3 kg/g/m²) Pressure Gauge Mochanical type 0 to 0.3 MPa Temperature Range: Max 1.50°C Sonsor Pt-100 Capacity: 100 L Healer: 5 kW Infernal Material: Stanless Steel Esturnal Material: Stanless Steel Esturnal Material: Stale Plate with Powder Safety funce Material: Stale Plate with Powder Safety funce Material: Safety Faller with Powder Gelection of the stale of the								
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MPE (1.2 to 1.3 kg/cm²) Pressure Gauge: Mechanical type 0 to 0.3 MPa Temperature Range: Max 130°C Sensor: Pt-100 Capachy: 100 L Heater-5 KW Internal Material: Signifess Steal External Material: Siele Plate with Powder Safety Desice Auction incoming power out Buzzer on when set time arrived Electric leakage circuit breaker Over temperature protection device Safety relief valve Accessory Wire basket x 2 EA 4 units - Showase Chiller; Capacity; 22 cu. it.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Bax Design; Double Glass Door; Fan-cooled system; Glavanizad Inner Lining, Internal samp; Orain Pan; Roller feet with looking mechanism; 6 argiu-stable coated wire shelves; 199 - 210 W input power; Power: 220V, 60Hz; Warranty; One year on parts and service; Installation and training on operations and maintenance, with AVR		Using Press:						
MPE (1.2 to 1.3 kg/cm²) Pressure Gauge: Mechanical type 0 to 0.3 MPa Temperature Range: Max 130°C Sensor: Pt-100 Capachy: 100 L Heater-5 KW Internal Material: Signifess Steal External Material: Siele Plate with Powder Safety Desice Auction incoming power out Buzzer on when set time arrived Electric leakage circuit breaker Over temperature protection device Safety relief valve Accessory Wire basket x 2 EA 4 units - Showase Chiller; Capacity; 22 cu. it.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Bax Design; Double Glass Door; Fan-cooled system; Glavanizad Inner Lining, Internal samp; Orain Pan; Roller feet with looking mechanism; 6 argiu-stable coated wire shelves; 199 - 210 W input power; Power: 220V, 60Hz; Warranty; One year on parts and service; Installation and training on operations and maintenance, with AVR		0.1177 to 0.1274						
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Mechanical type 0 to 0 3 MPa Temperature Ranger Max 130°C Sensor, Pt-100 Capadity, 100 L Heater: 5 kW Internal Material: Stainless Steel External Material: Stainless Steel External Material: Stainless Steel External Material: Steel Plate with Powder Safety Device Automatio reset function incoming power cut Buzzer on when set time arrived Electric leakage circuit threaker Over temperature protection device Safety relief valve Accessory With basket x 2 EA  21 4 units - Shorucase Chiller, Capacity; 22 cut. With 7 level Electronic Temperature Comtoi, LCD Temperature Dispilar, Clean Back Design; Double Glass Door; Pan-coulded system; Galvanizad Inner Lining; Internal Lamp; Lightel Panel Drain Pan; Roller feet with locking mechanism; 6 adjustable coatled wire shelves; 199 - 210 With put power; Power; 20V, 6Hz; Warranty: One year on parts and service: Installation and training on operations and maintenance, with AVR		kg/cm2)						
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Temperature Ranger Max 130°C Sensor: PH-100 Capacity; 100 L Heater: 5 kW Internal Material: Stanless 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 Wite basivet x: EA  2.1								
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Sensor: Pt-100 Capacity; 100 L Heater: 5 kW Internal Material: Stanless 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 Acosssory Wire basket x 2 EA  4 units Chiller; Capacity: 22 cut; With 7 level Electronic Temperature Costroit, 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 Winput power; Power 220V, 60Hz; Warranty: One year on perts and service; Installation and training on operations and maintenance, with AVR								
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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	21	Chiller; Capacity: 22		4 units				
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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	21	Chiller; Capacity: 22 cu.ft.; With 7 level		4 units				
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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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control;		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display;		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design;		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design; Double Glass Door;		4 units				
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	21	Chiller; Capacity: 22 cu.ft.; With 7 level Electronic Temperature Control; LCD Temperature Display; Clean Back Design; Double Glass Door; Fan-cooled system;		4 units				
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	21	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		4 units				
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	21	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		4 units				
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	21	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;		4 units				
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	21	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;		4 units				
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	21	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		4 units				
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	21	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;		4 units				
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	21	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;		4 units				
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	21	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		4 units				
190 -210 W input power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR	21	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;		4 units				
power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR	21	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		4 units				
power; Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR	21	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;		4 units				
Power: 220V, 60Hz; Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR	21	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;		4 units				
Warranty: One year on parts and service; Installation and training on operations and maintenance. with AVR	21	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		4 units				
on parts and service; Installation and training on operations and maintenance. with AVR	21	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;		4 units				
service; Installation and training on operations and maintenance. with AVR	21	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;		4 units				
service; Installation and training on operations and maintenance. with AVR	21	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		4 units				
Installation and training on operations and maintenance. with AVR	21	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		4 units				
training on operations and maintenance, with AVR	21	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		4 units				
operations and maintenance. with AVR	21	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;		4 units				
maintenance. with AVR	21	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		4 units				
maintenance. with AVR	21	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		4 units				
AVR	21	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		4 units				
	21	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		4 units				
100	21	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		4 units				

22 1 unit UV-Vs Spectrophotometer Wevelength Range. 190 to 1,100m. Spectrab Bandwith: Wevelength Accuracy ± 0,3mm for entire range or equivalent Nevelength Repeabalility ± 0,025mm Wevelength scanning speed: 3000mm/mm or better Stray light ± 0,004% (@ 20mm misimum develength scanning speed: 3000mm/mm or better Stray light ± 0,004% (@ 20mm misimum develength scanning B8mm diminum develength misimum photometric system: Double beam optics or equivalent Photometric Range: Absorbance: 4 to 4 dabs or better Transmittance: 6% to 4,00% or better Noise levet  < 0,00001 Abs or equivalent Light Source Hotogran da a detertion or equivalent Light Source Hotogran or equivalent Cozemy-Turner mounting or equivalent Option or equivalent Option or equivalent Detector: Silicone photodiode Power Requirements: ACZ22 V, 5060 Hz, 140 VA or equivalent Dimensiors: W450 x D501 x 14244 mm misimum Weight 16 8 kg missimum misimum Weight 16 8 kg missimum misimum Weight 16 8 kg missimum misimum Weight 16 R kg missimum misimum mis		4 4 1945 9		<del></del>	 1	· ·
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<ul> <li>Q.0.04% @ 340mm minimum</li> <li>&lt;0.15% @ 198mm minimum</li> <li>Photometric system: Double beam optics or equivalent Photometric Range: Absorbance: -4 to 4abs or better Transmittance: 0% to 400% or better Noise level: &lt;0.0001 Abs or equivalent Light Source: Halogen &amp; deuterium lamp or equivalent Monochromater: Czemy-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</li> </ul>						
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Transmittance: 0% to 400% or better Noise level: <0.00001 Abs or equivalent Light Source: Halogen & deuterium lamp or equivalent Monochromater: Czemy-Tumer 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						
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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		Transmittance: 0%				
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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		eguivalent				
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controlled Display: 24-bit color touch screen or						
Display: 24-bit color touch screen or						
touch screen or						
touch screen or						
		Dettel				

	Operational Accessories; With Sipper Unit Complete PC System (Desktop), O/S:Microsoft Windows 10 Processor: i5 minimum Software compatible with the UV-Vis Spectrophotometer  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				
	TOTAL FOR LOT 6  LOT 7				
23	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;	1 unit			

	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						
	TOTAL FOR LOT 7						
	LOT 8						
24	2 units -	2 units					
	AUTOCLAVE/STEA						
	M 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)		1	1		<u> </u>	

Safety valve operation: 0.29 MPa Water fest pressure: 0.58 MPa Material Chamber  & Amp, Id: Stainless Steel SUS304, shirty polished. Molded silicon rubber gasket (self- seal system) Outer panel: Steel with backet melamin finish. Top panel: Heat- resisting molded resiin Power requirement (5(060Hz)* AC220/230/240V, 1 phase, 12A Outer dmension If Y N 2 H H; 550 x 550 x 950 mm Weight: 50 Ng Stainless wire basket: 0 300 x 300 x 25pcs FEATURES: Quick Lock Lid Lid Intentook Electro Mechanical Locking System Graphth Display Timed Free Steeming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compilace with EMC (Electromagnetic Competibility) Requirements - based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT 8		•	,		T		 	
MPa Water test pressure: 0.58 MPa Maleriaci Chamber & amo; licf. Stainless Steel SUS304, shirty polished. Molded slicton rubber gasket (self- seal system) Outer penel: Steel with baked melamin filish. Top panel: Heat- resisting molded resin Power requirement (50160Hz): 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: 0 300 x 300 x 2pcs FEATURES: Quick Look Lid Lid Interlock Ellectro Mechanical Looking System Graphic Diplay Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Cuture Medium Start-Timer by Calendar Compiliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 6 1326 (2002) warranty 2 years  TOTAL FOR LOT 18	1 1							
Water test pressure: 0.58 MPa Material: Chamber & amp; iid: Stainless Steel SUS304, shiry polished. Molded silicon rubber gasket (self- seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resisin Power requirement (500012); AC220/230/240V, 1 phase, 12A Outer dimension (IV N D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: 0 300 x 300 x 2 pos FEATURES: Quick Look Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warning and Dissolving of Culture Medium Start-Timer by Calender Compiliance with EMC (Electromagnetic Compatibility) Requirements— based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT B								
pressure: 0.58 MPa Material: Chamber & lid: Stainless Steel SUS304, shirty polished. Molided silicon rubber gasket (self- seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resisin Power requirement (50:60:42): AC220/230/240V, 1 phase, 12A Outer dimension (V x D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: 0 300 x 300 x 2pcs FEATURES. Quick Lock lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steeming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Staff-Timer by Calendar Compliance with EMC Cellectromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Material: Chamber & Amp; Life Stainless   Steel SUS304, shiny polished.   Molided silicon rubber gasket (self-seal system)   Outer panel: Steel with baked melamin finish.   Top panel: Heatresisting molded resin   Power requirement (30/60/etz):   AC220/2302/40V, 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 2 pcs   FEATURES:   Outek Look Lid   Lid Interlook   Electro Mechanical   Looking System   Graphic Display   Timed Free   Steaming   Adjustable Auto   Extraust   Warming and   Dissolving of   Culture Medium   Staft-Timer by   Calendar   Complaince with   EMC   Electromagnetic   Compatibility   Requirements - based on IEC   Electromagnetic   Compatibility   Electromagnetic   Compatibility   Electromagnetic   Electromagnetic   Electromagnetic								
8amp, lid: Stainless Steel SUS304, shiny polished. Molded silicon rubber gasket (self- seel system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resist Power requirement (50/60/tz): 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 Staft-Timer by Calendar Compliance with EMC (Electromagnetic Competibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Steel SUS304, shiry polished. Molded silicon rubber gasket (self- seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resin Power requirement (5060Hz): 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: 03 300 x 300 x 2ncs 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 (Flectromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT 8								
shiny polished. Molded silcon rubber gasket (self- sel system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resin Power requirement (5006ht-2): AC220/230/20V, 1 phase, 12A Outer dimension (W N D x H): 550 x 550 x 950 mm Weight: 60 kg Stainless wire basket: 0 300 x 300 x 2pcs FEATURES: Quick Lock Lid Lid Intertock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compilance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Molded silicon rubber gasket (self- seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat- resisting molded resin Power requirement (5060Hz): 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 2ncs 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 TOTAL FOR LOT 8								
rubher gasket (self-seal system) Outer panel: Steel with baked melamin finish. Top panel: Heat-resisting moded resin Power requirement (50/60Hz): AC220/230/240V, 1 phase, 12A Outer dimension (W. Y. D. XII): 550 x 550 x 950 mm Weight 60 kg Stainless wire basket 0/300 x 300 x 2/pcs 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 Compilance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 6/1326 (2002) warranty: 2 years TOTAL FOR LOT 8								
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 0 x H): 550 x  550 x 950 mm  Weight: 60 kg  Stainless wire  basket: 03 00 x 300 x 200 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  Compilance with  EMC  (Electromagnetic  Compatibility)  Requirements -  based on IEC  61326 (2002)  warranty: 2 years  TOTAL FOR LOT 8								
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 Stanless wire basket: 0'300 x 300 x 2 pcs FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Stant-Timer by Calendar Compilance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT 8								
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 Stanless wire basket: 0'300 x 300 x 2 pcs FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Stant-Timer by Calendar Compilance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT 8		seal system)						
finish. Top panel: Heat- resisting molded resin Power requirement (50/60Hz): AC220/23/0240V, 1 phase, 12A Outer dimension (W x D x H): 550 x 650 x 950 mm Weight: 60 kg Stainless wire basket: Ø 300 x 300 x 2 pps FEATURES: Quick Lock Lid Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Stearning Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compilance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Top panel: Heat- resisting molded resin  Power requirement (5060Hz):  AC220/230/240V, 1 phase, 12A Outer dimension  (W x D x H): 550 x 550 x 550 x 950								
resisting molded resin Power requirement (50/60Hz): AC220/30/240V, 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								
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 Stearning 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								
Power requirement (60/60Hz): 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 2 pcs 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 Complaince with EMC (Electroangelic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
(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								
(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								
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  TOTAL FOR LOT 8		(50/60Hz):						
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		AC220/230/240V, 1						
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		phase, 12A Outer						
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 (Flectromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
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 (Flectromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8		(W x D x H): 550 x						
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
Lid Interlock Electro Mechanical Locking System Graphic Display Timed Free Steaming Adjustable Auto Exhaust Warming and Dissolving of Culture Medium Start-Timer by Calendar Compiliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years								
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								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
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  TOTAL FOR LOT 8								
Warming and Dissolving of Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Dissolving of Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Culture Medium Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Start-Timer by Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8		Culture Medium						
Calendar Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Compliance with EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years								
EMC (Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
(Electromagnetic Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Compatibility) Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
Requirements - based on IEC 61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
based on IEC 61326 (2002) warranty: 2 years TOTAL FOR LOT 8								
61326 (2002) warranty: 2 years  TOTAL FOR LOT 8								
warranty: 2 years TOTAL FOR LOT 8								
TOTAL FOR LOT 8								
25 1 unit ELICA 1 1 unit				4				
	25			i unit				
	25	1 unit - ELISA		·	I	i e		
	25	1 unit - ELISA Microplate						
	25	1 unit - ELISA Microplate Photometer						
	25	1 unit - ELISA Microplate Photometer High resolution						
	25	1 unit - ELISA Microplate Photometer High resolution touch screen touch						
	25	1 unit - ELISA Microplate Photometer High resolution touch screen touch screen, 6V, 10 W						
	25	1 unit - ELISA Microplate Photometer High resolution touch screen touch screen, 6V, 10 W Photo detector,						
board or PC control	25	1 unit - ELISA Microplate Photometer High resolution touch screen touch screen , 6V, 10 W Photo detector, Interface user on						

			1	1		
	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 temeperature 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					
	TOTAL FOR LOT 9					
	LOT 10					
26	1 unit - AIRBORN SURFACE DISINFECTION SYSTEM Portable disinfection nebulizer of airborn 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.	1 unit				
			105			

	warranty: 2 years				
ТО	TAL FOR LOT 10				
	LOT 11				
27	LOT 11  1 unit – Blender/Hemogeniz er High performance Blender/Hemogeniz er for small and standard sample preparation digital control and LCD display 2x 16 character alphanumerical 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	1 unit			
	bags, 1 waste tray, compliance certificate, 1-2 years warranty				
ТО	TAL FOR LOT 11				
	LOT 12				
28	1 unit - DIGITAL INCUBATOR Dual convection for versatility of application:	1 unit			

				ı	1		1		
	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								
1	20 1 0 0 00								
	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								
20	1 unit - DIGITAL		1						
29			1 unit						l l
	MICROSCOPE								
	WITH CAMERA,								
	accessories and								
	LAPTOP								
	Binocular,								
	integraded 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								
				107	i	•	i	-	-

	1		1	1		
	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					
1 1						
	laptop,					
30	laptop, 10 years warranty	1 unit				
30	laptop, 10 years warranty 1 unit -	1 unit				
30	laptop, 10 years warranty 1 unit - BINOCULAR	1 unit				
30	laptop, 10 years warranty 1 unit -	1 unit				
30	laptop, 10 years warranty 1 unit - BINOCULAR	1 unit				
30	laptop, 10 years warranty 1 unit - BINOCULAR COMPOUND MICROSCOPE	1 unit				
30	laptop, 10 years warranty 1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with	1 unit				
30	laptop, 10 years warranty 1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm	1 unit				
30	laptop, 10 years warranty  1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP	1 unit				
30	laptop, 10 years warranty  1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil	1 unit				
30	laptop, 10 years warranty  1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP	1 unit				
30	laptop, 10 years warranty  1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with	1 unit				
30	laptop, 10 years warranty  1 unit - BINOCULAR COMPOUND MICROSCOPE microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil objectives with mechanical stage	1 unit				
30	laptop, 10 years warranty  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™	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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.	1 unit				
30	laptop, 10 years warranty  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,	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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	1 unit				
30	laptop, 10 years warranty  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.	1 unit				
	laptop, 10 years warranty  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					
30	laptop, 10 years warranty  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 1 unit - Microscope,	1 unit				
	laptop, 10 years warranty  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  1 unit - Microscope, specs: binocular					
	laptop, 10 years warranty  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  1 unit - Microscope, specs: binocular					
	laptop, 10 years warranty  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  1 unit - Microscope, specs: binocular microscope with					
	laptop, 10 years warranty  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 1 unit - Microscope, specs: binocular microscope with WF10x/20 mm					
	laptop, 10 years warranty  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 1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP					
	laptop, 10 years warranty  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  1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP 4/10/S40/S100x oil					
	laptop, 10 years warranty  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 1 unit - Microscope, specs: binocular microscope with WF10x/20 mm eyepieces, SMP					

	mechanical stage							
	and 1 W							
	NeoLEDTM							
	cordless Köhler							
	illuminationBioBlue							
	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							
TO								
10	TAL FOR LOT 12							
	LOT 13							
32	1 unit - Biosafety		1 unit					
-	Cabinet (BSC)		- <del></del>					
	Class II Type A2/							
	Type B1/B2							
	Cabinet,							
	Dimensions:30(L) x							
	53(W) x							
	82(H)Inches; 4 feet							
	(1.2 Meters)							
	(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							
	o Ali quality	j		l	<u> </u>	l		

	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.						 	
33	1 unit - GENERAL		1 unit			-		
	PURPOSE OVEN							
	54 L chamber							
	capacity, 220-240							
	VAC; 50/60 HZ 1							
	phase power							
	supply.							
	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							
		1		l	<u> </u>	<u> </u>	<u> </u>	L

1 1	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				
1 1					
1 1	operations and				
1 1	maintenance.				
1 1	with AVR				
	Warranty: 2 years				
TO	TAL FOR LOT 13				
	LOT 14				
34	1 unit - Gas	1 unit			
31	Chromatography	ı umt			
	tandem Mass				
	Spectrometry(GCM				
	S)				
	Mass Spectrometer:				
	ויומסס סטבטנוטווובנבו.				
1 1	Ionization sources:				
	Ionization sources: EI, Chemical				
	Ionization sources: EI, Chemical Ionization must be				
	Ionization sources: EI, Chemical Ionization must be provided as an				
	lonization sources: EI, Chemical lonization must be provided as an option				
	lonization sources: EI, Chemical lonization must be provided as an option				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design:				
	Ionization sources: EI, Chemical Ionization must be provided as an option Source Design: Easily assembled				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source designed to be				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source designed to be tolerant for complex				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid source chamber				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization must be provided as an option Source Design: Easily assembled user centric source designed to be tolerant for complex matrices Rapid source chamber				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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				
	lonization sources: EI, Chemical lonization 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 escess				
	lonization sources: EI, Chemical lonization 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 escess fragmentation while				
	lonization sources: EI, Chemical lonization 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 escess fragmentation while retaining high				
	lonization sources: EI, Chemical lonization 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 escess fragmentation while retaining high				
	lonization sources: EI, Chemical lonization 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 escess fragmentation while				

El 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				
		1		
be assembled one		1		
way, reducing		1		
training time and		1		
errors in re-		1		
assembly"				
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				
Detector: Must				
incorporate an off-				
axis dynolite				
photomultiplier				
detector				
Vacuum system:				
Must be air-cooled				
turbomolecular		1		
pump evacuating		1		
the source &		1		
		1		
analyser. An		1		
external, chilled		1		
water supply must		1		
not be required for		1		
the vacuum system		1		
Regulatory		1		
approval/marks: CE		1		
and NRTL		1		
Gas		1		
Chromatograph:		1		
Injector:		1		
Split/splitless		1		
Auto sampler:		1		
		1		
Liquid injection		1		
Sample Vial		1		
Capacity: 150		1		

Oven temperature	9:					
Ambient + 2 to 45						
	U					
°C						
Oven						
ramps/plateaus:						
Supports 20 over						
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 a						
an automatic trigg						
for the acquisition						
product ion spect	ra 📗					
Simultaneous full						
scan and MRM						
mode: An						
information rich						
acquisition						
approach that						
allows you to coll	act					
	,01					
highly specific						
quantitative data	or					
target analysis						
while providing						
NIST-searchable						
full scan spectra	n					
	"					
parallel	_					
Mass range: 2-12	50					
m/z						
Scan Speed:						
20,000 u/s						
Mass Stability: ±						
0.1 u/24 hour per	od					
<u> </u>						
Linearity of						
response: The						
linearity of respor						
relative to sample						
concentration for						
specified compou						
is six orders of						
magnitude from the	ie					
limit of detection						
MS to MS/MS						
switching time: 3						
ms						
MRM acquisition						
rate: 500 MRM da	ita					
points per second						
to 800 MRM data						
points per second						
Inter-channel cros	00					
talk: The inter-						
channel cross tall	(					
between two MRI	Л					
	L.	1		i		ı

transitions will be less than 0.001% (less than 10 ppm) Number of MIRM channels Up to 32-768 MRM channels (1024 functions, 32 channels per function) can be monitored in a single acquisition Miss Rissolution of Miss Rissolution of PAPH-MI, or custom selection Limit (EI): The instrument be an instrument betaction Limit (EI): The instrument be an instrument betaction Limit (IOL) of less than 4 (50 of or custom selection Limit (IOL) of less than 4 (50 of or custom selections MIRM Sensitivity (IEI): "I jut of 10 (50)." And the selection Limit (IOL) of less than 4 (50 of or custom selections MIRM Sensitivity (IEI): "I jut of 10 (50)." And the selections MIRM Sensitivity (IEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (IEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 MRM Sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 When sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-222 When sensitivity (ICEI): "I jut of 10 (50)." And the selection of mize 272-22 When sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI): "I jut of 100 (50)." And the sensitivity (ICEI					
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(less than 10 ppm) Number of MFM channels: Up to 32,768 MFM 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 MFM instrument Detection Limit (EI): The instrument as an estimated Detection Limit (EI): The instrument pas and estimated Detection Limit (EI): The i					
Number of MFM channels: Up to 32,788 MFM channels: Up to 32,788 MFM channels (1024 function); can be monitored in a single acquisition Mass Resolution: 0, 4 u - 3,00 u (FV-MH), or custom sel-up MRM instrument Detection Limit (EI): The instrument has an instrument Detection Limit (UU), of less than 4 fig of octafluoranaphthale no from 8 consecutive injectons MRM Sensitivity (EI): 1 ju of 10 figiul.  cotafluoronaphthale ne will give a chromatographic signal-tu-noise geneut than 1000: 1 for the transition of mix 27,222 MRM Sensitivity (FOV): 1 ju of 100 figiul.  Benazostenone will ober accompliance signals for mix of the sensition of mix 21,222 MRM Sensitivity (FOV): 1 ju of 100 figiul.  Scanning Sensitivity (FI): 1 ju of 100 figiul.  Scanning Sensitivity (FI): 1 ju of 100 figiul.  Scanning Sensitivity (FI): 1 ju of 1 popju of in the transition of mix 21,33>10.5  Scanning Sensitivity (FI): 1 ju of 1 popju of the FIC of mix 227 when accompliance signals-b-mise geneter than 300.1 for the EIC of mix 227 when accompliance signals-b-mise geneter than 300.1 for the EIC of mix 227 when accompling from mix 50 to mix 550 SIR sensitivity (NC): 1 ju of 100 figlul.					
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(EI): 1 μL of 10 fg/μL octaffuoronaphthale ne 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  Scanning Sensitivity (EI): 1 μL of 1 pg/μL of octaffuoronaphthale ne will give a chromatographic signal-to-noise greater than 80:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550 to m/z 550  SIR sensitivity (III): 1 μL of 1 to 00 fg/μL of the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (IVCI): 1 μL of 100 fg/μL of fg/μL of floor fig/μL of floor					
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octafluoronaphthale ne 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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne will give a chromatographic signal-to-noise greater than 30:1 for the transition of m/z 183-105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
ne will give a chromatographic signal-to-noise greater than 1600:1 for the transition of mtz 2772-222 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 mtz 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of catalucronaphthale ne will give a chromatographic signal-to-noise greater than 300:1 for the EIC of mtz 272 when scanning from mtz 50 to mtz 550  SIR sensitivity (III): 1 µL of 100 fg/µL of the IC of mtz 550  SIR sensitivity (III): 1 µL of 100 fg/µL of the IC of mtz 550  SIR sensitivity (III): 1 µL of 100 fg/µL of the IC of 100 fg/µL of the IC of 100 fg/µL of 100 fg/					
chromatographic signal-to-noise greater than 1600:1 for the transition of mtz 272>222 MRM Sensitivity (PCI): 1 µL of 100 fg/yLL Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of mtz 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne will give a chromatographic signal-to-noise greater than 30:1 for the EIC of mtz 272 when scanning from mtz 50 to mtz 550  SIR sensitivity (KI): 1 µL of 1 pg/µL of the EIC of mtz 272 when scanning from mtz 50 to mtz 550  SIR sensitivity (KICI): 1 µL of 100 fg/µL lu Lof 100 fg/µL					
signal-to-noise greater than 160:1 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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne will give a chromatographic signal-to-noise greater than 30:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
signal-to-noise greater than 160:1 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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne will give a chromatographic signal-to-noise greater than 30:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL	chromatographic				
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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
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  Scanning Sensitivity (EI): 1 μL of 1 pg/μL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL	for the transition of				
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 mlz 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
(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  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
fg/µL Benzophenone will give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of of cotafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
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give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
give a chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL	Benzophenone will				
chromatographic signal-to-noise greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (El): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
signal-to-noise greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL	chromatographic				
greater than 80:1 for the transition of m/z 183>105  Scanning Sensitivity (El): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
for the transition of m/z 183>105  Scanning Sensitivity (EI): 1 μL of 1 pg/μL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
m/z 183>105  Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
Scanning Sensitivity (EI): 1 µL of 1 pg/µL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
(EI): 1 μL of 1 pg/μL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 μL of 100 fg/μL	m/z 183>105				
(EI): 1 μL of 1 pg/μL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
(EI): 1 μL of 1 pg/μL of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 μL of 100 fg/μL	Scanning Sensitivity				
of octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL	(EI): 1 μL of 1 pg/μL				
octafluoronaphthale ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
ne 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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
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  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
signal-to-noise greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
greater than 300:1 for the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
for the EIC of m/z 272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
272 when scanning from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
from m/z 50 to m/z 550  SIR sensitivity (NCI): 1 µL of 100 fg/µL					
550  SIR sensitivity (NCI): 1 μL of 100 fg/μL					
SIR sensitivity (NCI): 1 µL of 100 fg/µL					
(NCI): 1 μL of 100 fg/μL					
(NCI): 1 μL of 100 fg/μL	SIR sensitivity				
fg/µL					
ig/μL octafluoronaphthale	(NCI). 1 μL 01 100				
octatiuoronaphthale	Ι Ισ/μι				
114	octafluoronaphthale				

ne will give a					
chromatographic					
signal-to-noise					
greater than 2000:1					
for m/z 272					
Weight: Must not					
exceed 135 Kg.					
Inclusions:					
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					
LUITA	 <u> </u>	<u> </u>	l	<u> </u>	

	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						
35	1 unit - qPCR	+	1 unit				
33			i unit				
	Machine						
	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)	1					
	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,	1		I			

SimpleProbes,			<u> </u>			1
HybProbes						
Factory-Calibra						
Dyes (at shipme	nt):					
SYBR Green I /						
FAM / ResoLigh	t·					
VIC / HEX /	",					
Yellow555; LC I	DED					
610 / Texas Re	ı;					
Cy5						
Multiplexing						
Capabilities: Up	to 7					
targets						
Applications:						
Relative and						
Absolute						
Quantification						
Analysis, Meltin	<b>}</b>					
Peak Analysis,						
Endpoint						
Genotyping						
Analysis, High						
Resolution Melt	na					
(HRM)	a					
(i iixivi)						
0	. 1.1					
Sensitivity: 1.1 f						
discrimination, 9	-log					
dynamic range,						
Single copy						
detection						
Connection opti	nns.					
LAN, Direct	)110.					
connection to	,					
computer (RJ45	),					
PC-free (USB						
stick/flash drive						
controlled)						
Inclusions:						
1. Absorbance	late					
reader with cuv						
port	,110					
Specifications:						
Detection Mode						
UV/vis absorba	ice					
spectra						
Measurement						
Modes						
Endpoint and						
kinetic						
	20					
Spectral scanni	ıy					
(absorbance)						
Well scanning						
Microplate Form	ats					
6 to 1536-well						
plates, user-						
definable						
LVis Plate with	16					
	. •					
low-volume	,					
microspots (2 μ	-)					
Microplate Carr						
Robot compatib	le					
Light Sources						
		•				

High on	arai ( ) (anan	1			
	ergy xenon				
flash lan					
Detector	'S				
CCD Sp	ectrometer				
Waveler					
Selection					
	bsorbance				
spectron					
Full spec					
	vavelengths				
in < 1 se	c/well				
Spectral	Range				
220 - 10					
wavelen					
	n: ≤ 0.5 nm				
Sensitivi					
	ole spectral				
	n: 1, 2, 5,				
and 10 r					
OD rang	e: 0 to 4				
OD; pho					
resolutio					
OD	0.001				
	v: < 10/ c+ 2				
Accurac	y: < 1% at 2				
OD					
	n: < 0.5% at				
1 OD an	d < 0.8% at				
2 OD					
	r: ≤ 0.8% at				
2.0 OD	. = 0.070 at				
Read Til	moc				
Full spec	ctrum from				
	000 nm in				
less thar	n 1 sec/well				
Shaking					
	orbital, and				
	orbital with				
	inable time				
and spe					
Purge G	as Vent				
System	to inject an				
	nere or to				
	cuum into				
the read					
Incubation					
+3 °C al					
ambient	up to 45				
°C"					
The upp	er heating				
plate of t					
	on chamber				
	at 0.5 °C				
	an the lower				
	nis prevents				
	ation build-				
up on the	e lid or				
sealer					
Software	,				
	er Reader				
	and MARS				
Data An					
	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					
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. IsoFreeze 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)					
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					
00 . p / 61/60/		110			

	empty load),					
	Relative Centrifuge					
	Force (RCF)-2350 x					
	g., Includes:					
	g., includes.					
	Centrifuge Tubes					
	(2.0ml.), 2.0 ml.					
	Microcentrifuge					
	Tube, Sterile,					
	500pcs/bag					
TO	TAL FOR LOT 14					
	LOT 15					
36	1 unit - Stereo		1 unit			
50			· wiiit			
	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:					
	JZUA, Dase.					
	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.					
37	1 unit - EC Meter	†	4			
3/	i uiiit - EC Meter		1 unit			

				1			
	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 t o 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, calue 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						
38	1 unit – Fumehood		1 unit				
38	(PERCHLORIC		ı unıt				
	ACID)						
	MOC CBCA 19C						
	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						
	Sash/ Door, Vertical						
	folding type, Air						
	velocity 0.5 m/s						
		<u> </u>			 	 	
	•			121	 	 _	

Noise Level, 65					
dBA, Glass window-					
Two layer toughen					
glass, 5 mm					
thickness					
Adjustable height,					
Motor control, Make					
up air					
Air needed to					
replace the air					
exhausted from a					
room by the fume					
hood and other					
ventilation devices					
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					
10010tant lab ooat	<u> </u>	l	İ	İ	

	A non-boot registers	1			I	<u> </u>	
	4 pcs heat resistant						
	gloves						
	1 unit A/C inverter						
	(2 hp)						
39	2 units - Benchtop	2 ui	nits				
	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						
	<ul> <li>Installation and</li> </ul>						
	Commissioning						
	- Certificate of						
	Calibration						
	- Warranty: One						
	year on parts and						
	service under						
	normal use						
40	1 unit - Toploading	A	ınit	+			
40		1 4	mut				
	Balance						
	0						
	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.						
$\Box$	(555). 1.1 555.		122	1	<u> </u>	1	

	Calibration: Internal					
	with AVR					
41	1 unit - Analytical	1 unit				
	Balance,					
	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:					
	<ul> <li>Installation and Commissioning</li> </ul>					
	- Certificate of					
	Calibration					
42	1 unit - pH 2700	1 unit				
	Meter With pH Electrode					
	Licetiode					
	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 m)/ Acquracy: 0.1/					
	mV Accuracy: 0.1 / 1					
	lon Measuring					
	Range: 0.001 -					
	19,999 ppm Temperature					
	Measuring Range: -					
	20 - 120°C					
	Resolution: 0.1					
	Accuracy: ±0.5 °C Inclusion					
	DHS Kit Stirrer					
		<u> </u>	ı	 <u> </u>	1	I

				1				1	
	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								
10	TAL FOR LOT 15								
	LOT 16								
43	1 unit - Laboratory		1 unit						
	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								
	<ul> <li>Certificate of Calibration</li> </ul>								
	Julipration	1		125	1	I	1	<u> </u>	

	- Warranty: One				
	year on parts and				
	service under				
	normal use				
44	1 unit -	1 unit			
1 1	Reciprocating	ı unit			
	Horizontal				
	Mechanical Shaker:				
	Shaker				
	Silakei				
	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				
TO	TAL FOR LOT 16				
GR	AND TOTAL				

Name:	
Legal Capacity:	
Signature:	
Duly authorized to sign the Rid 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]

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

# 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]

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THIS AGREEMENT made the	day of	20	_ between [name of
PROCURING ENTITY] of the Philippines	s (hereinafter calle	d "the Entity"	of the one part and
[name of Supplier] of [city and country of	of Supplier] (herein	nafter 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 PHILIPPIN	IES)
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

