



October 10, 2018

Bid Bulletin No. 1

Subject: Supply, delivery and installation of Various Laboratory Equipment for the Crop Biotechnology Center under PB 18-04-16

This bid bulletin is being issued to clarify and/or amend the bid data sheet and the technical specifications for the supply, delivery and installation of various laboratory equipment for the Crop Biotechnology Center as follows:

Bid Document Fee:

Bid document fee shall be computed based on the ABC per item. Bidders shall submit to the BAC Secretariat the items that they will be joining and will be reflected in the order of payment.

Bid Data Sheet Clause 12.1(b)(ii)

Emphasis was given to the importance of the proof of evidence as a requirement in the form of brochure and certificate as authorized distributor or exclusive dealer of the brand being offered. The certificate must be issued by the manufacturer or principal under oath and authenticated by the embassy/consulate nearest to the place of the principal in case of goods coming from foreign country. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the bid liable for rejection.

Bid Data Sheet Clause 29.2

As part of the post-qualification requirements for track record and performance evaluation purposes, bidders shall submit a statement of completed contract similar to the item for bidding within the past two (2) years.

A certified photocopy of at least two (2) or three (3) completed contract supported by end-users acceptance or official receipt issued for the contract. Same brand with different model is acceptable.

Revised Technical Specifications:

Attached is the revised technical specifications for the complete details.

Please be guided accordingly.


EDUARDO JIMMY P. QUILANG
BAC Chairperson



Revised Technical Specifications for PB 18-04-16

Item	Specification	Statement of Compliance
1	<p>Six (6) Units of Agarose Gel Electrophoresis (AGE) Total ABC P660,000.00 Type: Horizontal AGE Tank- Horizontal cell Maximum Samples: 672 Maximum Buffer volume: 4500 mL each unit Safety lid with cables (red and black) 2 casting gates/casting dam or equivalent</p> <p>Other inclusions (per unit): 14 combs (12 combs for 50-56 samples and 2 special combs) and 2 additional casting gates or special molder 1-unit flexible caster 1-3 UV trays 1-year warranty</p>	<p>Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders 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 provisions of ITB Clause 3.1 (a)(ii) and/or GCC Clause 2.1(a)(ii).</p>
2	<p>Two (2) Units of Power Supply for the Agarose Gel Electrophoresis Total ABC P160,000.00 Must be compatible to item no. 1 Power Supply: (Voltage) 0-500 V Max Current: at least 800 mA Power: at least 150 W Capacity: 100-240V Number of sockets: at least 4 Dual Voltage compatible</p> <p>1 year warranty</p>	



3	<p>Six (6) Units of Poly Acrylamide Gel Electrophoresis Tank Total ABC P 660,000.00</p> <p>Type: Vertical electrophoresis system (dual system) Capacity: screens up to 204 samples simultaneously; can accommodate 102 well microtiter Comb: at least 100 wells Other inclusions (per unit):</p> <ul style="list-style-type: none"> • Cooling chamber • Coolant recirculation ports • Platinum electrodes • 2 sets of Long lasting silicone gaskets • Safety cover with power leads • 4 pieces white spring clamps • 2 pieces combs • 2 sets of spacers • 2 sets of glass plates • Conversion plate for running one gel at a time; with rubber gasket <p>1 year warranty</p>	
4	<p>Two (2) Units of Power Supply for the Polyacrylamide Gel Electrophoresis Total ABC P80,000.00</p> <p>Must be compatible with item no. 3 Voltage: 0-300 V Current: 0-1000 mA, Power: 150 W Electrical requirements: 220V Number of sockets: at least 4</p>	
5	<p>One (1) Unit of Escherichia Coli Pulser Total ABC P 300,000.00</p> <p>With optimal efficiency, reproducibility safety and convenience. Capable of generating field strengths as high as 20,000 v/cm (3.0 kV/0.15 cm) and of achieving transformation efficiencies of $>1 \times 10^{10}$ = pulse efficiency rate transformants/ug pUC19 DNA. Additional 220V/60Hz; ambient operating temperature 0-35°C; fits all size of cuvette; electroporator includes main unit. Capacitance extender & pulse controller modules, shocking chamber, cuvette, and cuvette rack</p>	
6	<p>One (1) Unit of ELISA Plate Reader Total ABC P300,000.00</p> <p>Wavelength range: 340-850 nm; Wavelength Selection: Monochromator, tunable in 1-nm increments Wavelength bandwidth: 2.0 nm Wavelength accuracy: ± 1.0 nm across wavelength range Wavelength repeatability: ± 0.2 nm across all optical channels Photometric range: 0.000 to 4.000 optical density (OD) Photometric resolution: 0.001 OD</p>	



	<p>Photometric accuracy/linearity: $<\pm 1.0\%$ and ± 0.006 OD, 0.0-2.0 OD Photometric Precision: $<\pm 1.0\%$ and ± 0.003 OD, 0.0-2.0 OD Stray Light: 0.07% at 340 nm (3.15 OD) Light source: Xenon flash lamp Microplate read time (endpoint): at least 9 second Microplate read time (Kinetic): at least 9-second minimum interval Temperature range: Ambient + 4 to 45°C Temperature uniformity: ± 0.5 °C @ 37 °C well-to-well Electrical requirement: 220V/60Hz Accessories: Plate reader management software, includes All-in-one desktop Regulatory compliance: CE and TUV marked, RoHS compliant</p>	
7	<p>One (1) Units of Gel Documentation System Total ABC P 1,200,000.00 Fluorescence: Yes Colorimetry/densitometry: Yes Gel documentation: Yes Upgradable to Chemiluminescence: Yes Minimum image area: 21x26 cm Excitation source: Trans UVB and UVC Illumination control: 2 modes Trans-UV, Trans-White, or equivalent UV tray, Blue tray, White tray Detector: CCD Camera resolution: at least 4 megapixel Image resolution: 7-20 megapixels, or better Emission filters: Tray-based Dynamic range: >3.0 orders of magnitude Pixel density (gray levels): at least 12 bit Other features:</p> <ul style="list-style-type: none"> • Universal filter or provide at least 4 filters for Sybrgreen, GelRed and 2 more to be completed in a year. • At least 40 application protocol-controls application specific UV pad, light source, filter, focus, zoom, exposure, image area • Auto exposure, auto focus, auto lighting, single click to capture best image. • Motorized zoom & Auto focus • Image flat fielding: Dynamic; precalibrated and optimized per application <p>Other inclusions:</p> <ul style="list-style-type: none"> • All-in-one touch screen PC (min 23" display) and digital thermal printer with at least 50 rolls thermal paper <p>• 1 set of spare UV lamp</p>	



	2 years warranty, one time preventive maintenance per year during warranty period.	
8	<p>Ten (10) of Units Gradient Thermocycler Total ABC P 3,000,000.00</p> <p>Input power: 100-150VAC, 50-60Hz; 220-240VAC, 50-60Hz; 700W maximum Display: at least 5.7 in VGA color touch screen Port: 1 USB A Fuses: Two 10A, 220V, 5x20 mm Memory: at least 500 typical programs onboard; unlimited w/ USB flash drive expansion Temperature control modes: calculated and block PCR license: Yes Programming options: Step-based graphical Reporting: exportable run logs, system logs Instant incubation: Yes Sample capacity: 96x0.2 mL tubes, 0.2 mL tube strips, or 1x96-well plate Max ramp rate: 4°C/sec Average ramp rate: 2.5°C/sec Temperature range: 4-100°C or better Temperature accuracy: at least ±0.5°C of programmed target Temperature uniformity: at least ±0.5°C well-to-well within 30 sec of arrival at target temperature Gradient capability: Yes Gradient range: 30-100°C Temperature differential range: 1-25°C Other Inclusions:</p> <ul style="list-style-type: none"> • Power cord • Tube support • AVR & UPS • Training for the end-users on site by the Product Specialist <p>Calibrated to standards, traceable to national institute of standards and technology</p>	
9	<p>Four (4) of Pieces Heating Plate Total ABC P 120,000.00</p> <p>Shape: Rectangular Digital temperature display: Yes Top plate material: Ceramic Maximum Temp: at least 300°C Speed range: 100-1500 rpm Maximum loading capacity: 5 kg Stirring position: 1 Maximum stirring volume: 5L Electrical requirement: 220V/60Hz Inclusions: At least two 2 inches Stir bars</p>	



10	<p>One (1) set of Freeze Dryer System (Lyophilizer) Total ABC P 3,200,000.00</p> <p>1 unit for mobile console type, 5" capacitive touch screen, real time display, vacuum break valve, durable steel cabinet, patented moisture sensor, upright stainless steel collector coil capable of holding 5.5 -6 liters of ice before defrosting - 84°Centigrade, hybrid vacuum pump, clear acrylic drum type, HCFC/CFC free, console cabinet with interior space for vacuum pump, conform CAN/CSA standard, CE and ETL. Inclusions combination vacuum pump and tall clear drying chamber, UPS-AVR, pump oil and 1 year preventive maintenance.</p> <p>1 unit compact benchtop design, 4.5 liters. Collector lid, 3/4" thick, has neoprene gasket and 3" diameter port for connection of drying. Full color, 5" capacitive touchscreen with provide notification, alarm and data collection with a small footprint; , vacuum break valve, durable steel cabinet, patented moisture sensor defrosting; -105° Centigrade includes stainless steel lid Includes combination vacuum pump, clear chamber with 12 ports x adapter (glass, straight), 12 x fast freeze flask (600 ml) and compatible UPS-AVR, spare vacuum pump oil, w/ 1 year preventive maintenance</p>	
11	<p>One (1) Units of Quantitative Real Time PCR Total ABC P3,000,000.00</p> <p>Capacity: minimum 96 wells in 0.1 mL format Heating rate: 8°C/s Cooling rate: 6°C/s Temperature setting range: 35-99°C</p> <p>Number of channels / Filter configuration: at least 5 channels (except reference dye if required by machine +1), All-in-one touch screen PC (min 23" display), open system</p> <p>With compatible UPS with AVR</p> <p>Other features:</p> <p>Silver sample block with gold coating or better</p> <p>3 years warranty, One time preventive maintenance per year during warranty period</p>	



	<p>Starter Kit: Mastermix: 500 reactions Tubes: 5 boxes (50 plates/box) or equivalent PCR water: 500mL</p>	
12	<p>Two (2) Units of Refrigerated Microcentrifuge Total ABC P 1,100,000.00 Minimum volume: 44 x 2.0 mL Minimum speed: 13500rpm Minimum RCF: 21379 x g Display: Microprocessor with large LCD Display Other features:</p> <ul style="list-style-type: none"> • Quick-key for short runs with corresponding digital display of elapsed time in seconds • Motor driven lid lock: Yes • Maintenance-free induction motor; Automatic imbalance indication with safety cut off: Yes • CFC-free refrigeration system • pre-cooling program option • audible signal at the end of each run <p>Other inclusions: Compatible UPS with AVR With 1 additional rotor (36 x 0.5 ml)</p> <p>3 years warranty, one time preventive maintenance per year during warranty period</p>	
13	<p>One (1) Unit of Sonicator Ultrasonic Cleaner with heater Total ABC P 70,000.00 Capacity: 3L Controller type: Digital Ultrasonic frequency: 53 KHz Heating: yes Degas: yes Timer (minute): 1-99 Programmable timer: Yes Timer range: 1-99 min Interior tank material: Stainless steel Cover: Stainless steel Ultrasonic power: 100W Heating power: 75W Degas power: 100W Sound proof chamber: Yes Power requirements: 220V</p>	
14	<p>Two (2) Units of Fluorospectrometer Total ABC P 1,600,000.00 With both UV Absorbance spectrophotometer mode & Fluorescence mode Wi-fi and USB connectivity, standalone system UV Spectrophotometer: Microvolume sample: 0.5 to 1 uL</p>	



	<p>Microvolume pathlength: 0.5 mm (automatic) UV pathlength: 10, 5, 2, 1 mm Range: atleast 190nm to 840nm Wavelength accuracy: ± 0.5 nm Light Source: Pulsed Xenon flash lamp Detectors: 2048 element CCD</p> <p>Fluorometer mode (open system): at least four channel fluorescence modes Channel 1: 514-567 nm, Channel 2: 565-650 nm, Channel 3: 664-740 nm, Channel 4: 435-485 nm Detectors: Photodiode, detection range 300-1000 nm Sample volume capacity: 0.5 mL Real Time thin-wall PCR tube (polypropylene)</p> <p>Compliance certificate: UL/CSA, CE or equivalent</p> <p>Must Include Fluorescence starter kit dsDNA Broad range Kit (250 ct) dsDNA High Sensitivity Kit (50 ct) dsDNA Ultra High Sensitivity Kit (50 ct), 1500 Thin wall PCR tube</p> <p>Compatible UPS (minimum 3kVA)</p> <p>2 years warranty, One time preventive maintenance per year during warranty period</p>	
15	<p>One (1) Unit of Freezing Microtome Total ABC P 1,000,000.00</p> <p>Menu-driven control panel can be used on either side of instrument; Display monitors a range of functions including cutting speed, section count, section thickness, and advance distance; Four cutting modes of operation (single, interval, multi and continuous); User-selected cutting window control maximizes throughput by allowing the return stroke to be faster than the optimized cutting stroke; Manual and/or foot pedal control; Double tap start activates sectioning motor; One-handed zero-orientation head; Joy-stick control specimen advance and rewind; Emergency stop immediately cuts power to the motor; Large, easy-to-clean waste tray extends below the blade holder</p>	
16	<p>Three (3) of Units Refrigerator Biorefrigerator (4°C) Total ABC P 2,100,000.00</p> <p>Cabinet material: White painted anti-corrosion steel or scratch-resistant painted Capacity: at least 1442 liters</p>	



	<p>Chamber material: White painted anti-corrosion steel or scratch-resistant painted</p> <p>Automatic defrost: Yes</p> <p>Door Count: 2-3</p> <p>Glass Door: Yes</p> <p>Shelves: 4 shelves/door (at least 8 shelves in total)</p> <p>Temperature Control: Digital temperature controller</p> <p>Temperature range: 1 to 8°C</p> <p>Electrical requirement: 220-240V, 50/60Hz</p> <p>Inclusions: Compatible AVR</p> <p>2 years warranty, 1 time preventive maintenance per year</p>	
17	<p>Three (3) Units of Freezer (-80°C) Total ABC P 3,000,000.00</p> <p>Temp range: -50 to -86 °C</p> <p>Capacity: at least 540L</p> <p>Electrical requirements: 220V/60 Hz</p> <p>Number of doors: 4 polystyrene insulated inner doors</p> <p>Other features:</p> <ul style="list-style-type: none"> • Memory can store up to 15 years worth of temperature and event data on the on-board touchscreen computer • With KeyLock Standard and Keycard • Padlock compatible • Insulation: Vacuum panel and water blown foam • Audible alarm • Line voltage indicator • Line voltage and buck/boost <p>Includes compatible UPS with AVR anti-surge – compatible to run the machine for at least 3-4 hrs, or CO2 backup system with complete accessories, or LN2 backup system with complete accessories</p> <p>5 years warranty on compressor, 2 years warranty on other parts & services, 1 time preventive maintenance per year</p>	
18	<p>Four (4) Units of Dehumidifier Total ABC P120,000.00</p> <p>Portable dehumidifier</p> <p>Operates as low as 38°F</p> <p>With adjustable humidistat</p> <p>Dimension: 770 x 470 x 1630mm</p> <p>Refrigerant type: R-290</p> <p>Noise level: </-55 dB at 2m distance</p> <p>Alarm system: Yes</p> <p>Power requirement: 220V/60Hz; Working temperature range: 15 to 40°C</p>	