

Office of the Vice President for Planning, Resources Generation and Auxiliary Services

2/F Administration Building Visca, Baybay City, Leyte 6521-A Philippines Phone/Fax: +63 53 565 0600 loc 1004 Email: ovpprgea@vsu.edu.ph Website: www.vsu.edu.ph

BID BULLETIN 01

| Project Title: | Supply and Delivery of Laboratory Equipment for VSU Main and |
|----------------|--|
| | Component Colleges (GOODS-20-51) |
| Date: | 05 October 2020 |

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

LIST OF ELIGIBILITY REQUIREMENTS

| ELIGIBILITY AND TECHN | NICAL DOCUMENTS (1st Envelope) | | | | | |
|-----------------------|---|--|--|--|--|--|
| Eligibility Documents | | | | | | |
| 1 | PhilGEPS Certificate of Registration (Platinum) | | | | | |
| | or | | | | | |
| | a. Registration Certificate | | | | | |
| | b. Mayor's/Business Permit | | | | | |
| | c. Tax Clearance | | | | | |
| | d. Audited Financial Statements | | | | | |
| 2 | Statement of On-Going Government & Private Contracts | | | | | |
| 3 | Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or P 3,607,125.00) | | | | | |
| | or | | | | | |
| | Statement of at least two (2) similar completed contracts w/ total amount of at least P 3,607,125.00 and the largest of which should be at least P 1,803,562.50 | | | | | |
| 4 | Net Financial Contracting Capacity (at least P 7,214,250.00) | | | | | |
| Technical Documents | | | | | | |
| 5 | Bid Security | | | | | |
| 6 | Technical Specifications | | | | | |
| 7 | SCHEDULE of Requirements/Production and delivery schedule | | | | | |
| 8 | Manpower Requirements | | | | | |
| 9 | After Sales service/parts (at least 1 year from acceptance of delivered goods) | | | | | |
| 10 | Omnibus Sworn Statement | | | | | |
| FINANCIAL DOCUMENTS | S (2 nd Envelope) | | | | | |
| 11 | Bid Form | | | | | |

Please take note: In the **Technical Specifications**, bidders must state either "Comply" or "Not Comply" <u>against each of the individual parameters of the specifications</u> per item stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model 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).

I. Preparation of Electronic Bid (for bidders who prefer electronic bid submission)

- 1. Convert all documents into Portable Document Format (PDF) and should be printable.
- 2. Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

| | Document | Filename (in PDF form) |
|-----|---|-------------------------------------|
| 1. | PhilGEPS Certificate of Registration (Platinum) | PhilGEPS |
| 2. | Registration Certificate (SEC/DTI) | Registration Certificate |
| 3. | Mayor's/Business Permit | Mayor's-Business Permit |
| 4. | Tax Clearance | Tax Clearance |
| 5. | Audited Financial Statements | Audited Financial Statements |
| 6. | Statement of On-Going Government & Private Contracts | Statement of On-Going Contracts |
| 7. | Statement of Bidder's Single Largest Completed Contract | SLCC |
| 8. | Statement of at least two (2) similar completed contracts | Statement of Completed Contracts |
| 9. | Net Financial Contracting Capacity | NFCC |
| 10. | Bid Security | Bid Security |
| 11. | Technical Specifications | Technical Specifications |
| 12. | SCHEDULE of Requirements/Production and delivery schedule | Schedule of Requirements |
| 13. | Manpower Requirements | Manpower Requirements |
| 14. | After Sales service/parts | After Sales |
| 15. | Omnibus Sworn Statement | Omnibus Sworn Statement |
| 16. | Bid Form | Bid Form |

- 3. Create two (2) folders that are password-protected. The first folder should contain all technical documents (Items 1-15 above, whichever are applicable). The second folder should contain the Bid Form (financial proposal).
- 4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
- 5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at <u>jecleo@vsu.edu.ph</u> before the deadline.

| Original | Amendment |
|--|--|
| A complete set of Bidding Documents | 2. A complete set of Bidding Documents |
| may be acquired by interested Bidders | may be acquired by interested Bidders |
| on September 21 to October 12, 2020 | on September 21 to October 12, 2020 |
| until 1:59 PM from the address below | until 1:00 PM from the address below |
| and upon payment of the applicable | and upon payment of the applicable |
| fee for the Bidding Documents, | fee for the Bidding Documents, |
| pursuant to the latest Guidelines | pursuant to the latest Guidelines |
| issued by the GPPB, in the amount of | issued by the GPPB, in the amount of |
| Ten Thousand Pesos (P 10,000.00) | Ten Thousand Pesos (P 10,000.00) |
| 5. It may also be downloaded free of | 5. It may also be downloaded free of |
| charge from the website of the | charge from the website of the |
| Philippine Government Electronic | Philippine Government Electronic |
| Procurement System (PhilGEPS) and | Procurement System (PhilGEPS) and |
| the website of the Procuring Entity, | the website of the Procuring Entity, |
| provided that Bidders shall pay the | provided that Bidders shall pay the |
| applicable fee for the Bidding | applicable fee for the Bidding |
| Documents not later than the | Documents not later than the |
| submission of their bids. | submission of their bids. |
| | The Bidders may also deposit the applicable fee to Visayas State University Landbank Account: Account Name: Visayas State University Fund 164 Account Number: <u>3572-1000-13</u> And send the deposit slip to Ms. Jessamine C. Ecleo at jecleo@vsu.edu.ph |

II. Revised List of Goods and Technical Specifications

- Some Specifications were added and/or deleted
- Some Quantities and Unit Prices (ABC) were changed

| ltem No. | DESCRIPTION | Qty. | Unit | ABC (Pesos) | Total ABC (Pesos) |
|-------------|---|------|------|----------------|----------------------|
| | FOR VSU MAIN | | | | |
| | For Items No. 1 to 24 Delivery (FOB) is at VSU Main | | | | |
| 1 | Top loading balance | unit | 1 | 56,750.00 | 56,750.00 |
| | Capacity: 2,100g | | | | - |
| | Readability: 0.01g | | | | - |
| | Housing dimension: at least 8.5 x 4 x 13.7 | | | | - |
| | Display: Color Touchscreen | | | | - |
| | Linearity(g): 0.02 | | | | - |
| | Repeatability(g): 0.01 | | | | - |
| | Power (VAC): 100-240 V | | | | - |
| 2 | pH meter with plastic electrode, pHBasic pH Meter, Power Supply, 2 Buffers, Arm, & Electrode: PY- P10-2S-delete (General purpose - pH/ATC, Plastic Body, Liquid 3M KCI refillable, ceramic junction, BuLb style). | unit | 1 | 64,750.00 | 64,750.00 |
| 3 | Drying Oven, at least 115 liters Voltage: 230 V 1~ ph 50/60 Hz Performance Data Temperature Temperature range 8 °C above ambient temperature to: 300°C Heating-up time to 150 °C [min]: 60 Width net [mm]: 710-delete Height net [mm]: 735-delete Depth net [mm]: 605-delete Interior volume [L]: at least 115 | unit | 1 | 114,750.00 | 114,750.00 |
| 4 | Water Bath 4 Holes | set | 1 | 14,000.00 | 14,000.00 |
| | Package Specifications: | | | | - |
| | Maintains temperature of collected semen for evaluation Enables to consistent temperature of water during examination | | | | - |
| | Prevents boar semen from temperature shock | | | | |
| | 4 holes, 2 line setup | | | | |
| 5 | Cool Incubator | set | 1 | 19,800.00 | 19,800.00 |
| 0 | Package Specifications: | 301 | | 10,000.00 | |
| | Cool Incubator for storage of extended boar semen | | | | - |
| | Also for storage of semen extender | | | | |
| | Temperature range -/+1°C to 17°C with digital display | | | | - |
| | with build in power on delay | | | | - |
| | comes with a servo type automatic voltage | | | | - |
| 6 | iSperm Sperm Analyzer (1 set) | lot | 1 | 144,000.00 | 144,000.00 |

| | Package Specifications: | | | | - |
|---|--|-------|---|-----------|-----------|
| | Concentration accuracy interval: 20-500 million/ml ±5% | | | | - |
| | Motility Accuracy interval: concentration between 20-50 million/ml, 0-100%, error ±5% | | | | - |
| | iPad Mini* (this item is required for the iSperm Semen Analyzer to work) (1 pc) | | | | - |
| 7 | Complete Kymograph kit | unit | 2 | 11,500.00 | 23,000.00 |
| | Maintenance free | | | | - |
| | Microprocessor controlled unit | | | | - |
| | 16x2 LCD Display; | | | | - |
| | Highly accurate speeds- 0.12,0.25,0.50,0.75,1.00,1.25,2.50 mm/sec | | | | - |
| | Digital Timer & Time multiplier with Audio & Visual Alarm | | | | - |
| | Very low power consumption | | | | - |
| | Easy height adjustment of drum | | | | - |
| | Auto concentration response curve (CRC) mode & Normal mode | | | | - |
| | Sturdy, corrosion resistant body | | | | - |
| | battery backup(optional) | | | | - |
| 8 | Spirometer with ipad bundle Spirometry | unit | 1 | 67,000.00 | 67,000.00 |
| | Parameters:FCV,FEV1,FEV1/FVC%,PEF,FEF25- 75; Available with both DISPOSABLE and REUSABLE turbine flowmeter; Pediatric Incentive Animations, iSpirometry®App; Spirobank II® Smart can be also connected to the PC via USB using WinspiroPRO PC Software®; | | | | - |
| | Materials Included: 1 CD Winspiro PRO®PC software, 1 Rechargable battery, 1 USB cable, 1 Mouthpiece, 1 Noseclip, 1 Carrying Case; | | | | - |
| | Technical Specifications: Display-160x80px, Power supply-3.7V, 100mA lithium battery USB rechargable, Keypad- 6-key membrane keyboard, Data Transmission- USB and Bluetooth® Smart, Dimensions Device - 160x55x25MM, Device Weight (with battery)- 145g, Flow measurement- +16 L/s, Volume Accuracy - + 5% o 200 mL/s, Temperature Sensor - Semiconductor (0-45oC) Automatic BTPS Conversion, Main Sprimetery Parameters - Using iPad software FVC, FEV1, FEV1/FVC%, PEF, FEF25-75, Additional Spirometery Parameters- Using PC Software via USB FVC, FEV1, FEV1/FVC, FEV1/VC, PEF, FEF25, FEF50, FEF75, FEF25–75, FEF75–85, Lung Age, Extrap. Volume, FET, Time to PEF, FEV0.5, FEV0.5/FVC, FEV0.75, FEV0.75/FVC, FEV2, FEV2/FVC, FEV3, FEV3/FVC, FEV6, FEV1/FEV6, FIVC, FIV1, FIV1/FIVC, PIF, FIF25, FIF50, FIF75, FEF50/FIF50, VC, IVC, IC, ERV, IRV, Rf, VE, VT, tl, tE, VT/tl, tE/tTOT, MVV (measured) MV/(calculated) | | | | - |
| 9 | (measured), MVV (calculated) Digital sphygmomanometer | units | 2 | 10,000.00 | 20,000.00 |
| Э | Ligital spriyghomanometer | units | 2 | 10,000.00 | 20,000.00 |

| | Clinically validated | | | | - |
|----|--|------|------|------------|--|
| | body movement detection | | | | - |
| | blood pressure level indicator | | | | - |
| | irregular heartbeat detection | | | | - |
| | measurement memory storage | | | | - |
| | average for at least 3 readings w/ in 10 minutes | | | | - |
| | intellisense technology | | | | - |
| 10 | Nerve Muscle Assembly/ Kymograph Assembly | unit | 1 | 30,000.00 | 30,000.00 |
| | Universal Kymograph (speeds 0.12, 0.25, 1.25, 2.5, 12.5, 25, 320, 640mm/sec) with inbuilt stimulator | | | | - |
| | Muscle and heart bath with pair of electrodes, lever assembly, pin and ink marker | | | | - |
| | Hook and weight set, set of 11g | | | | - |
| | Hook and weight set, set of 110g | | | | - |
| | Time Marker | | | | - |
| | Marriote bottle and stand | | | | - |
| | Kymograph paper | | | | - |
| | Dissection tray | | | | - |
| | Dissection box | | | | - |
| | Pithing needle | | | | - |
| | Muscle clip | | | | - |
| | Connecting wire | | | | - |
| | REBIDDING MAIN | | | | - |
| 11 | Top loading balance, 6kg capacity with two decimal accuracy | 1 | unit | 60,000.00 | 60,000.00 |
| 12 | Water Purification system for type 1 | 1 | unit | 264,500.00 | 264,500.00 |
| | Feedwater source: Distilled | | | | - |
| | Flow Rate: at least 7L/hr at 10°C | | | | - |
| | Feedwater connector: 3/4 in. NPT | | | | - |
| | Feedwater connector: 3/4 in. NPT | | | | - |
| | Net Weight (Metric): at most 25kg | | | | - |
| | Voltage: 90 to 240V | | | | |
| | voltage. 30 to 240 v | | | | - |
| | Hertz: 50/60Hz | | | | - |
| | | | | | - |
| 13 | Hertz: 50/60Hz | 2 | unit | 80,000.00 | - - 160,000.00 |
| 13 | Hertz: 50/60Hz Temperature Range (Metric): 2° to 35°C | 2 | unit | 80,000.00 | - - 160,000.00 - |
| 13 | Hertz: 50/60Hz Temperature Range (Metric): 2° to 35°C Dendrometer bands, | 2 | unit | 80,000.00 | - - 160,000.00 - - |
| 13 | Hertz: 50/60Hz Temperature Range (Metric): 2° to 35°C Dendrometer bands, Diameter dendrometer small, | 2 | unit | 80,000.00 | - - 160,000.00 - - - |
| 13 | Hertz: 50/60Hz Temperature Range (Metric): 2° to 35°C Dendrometer bands, Diameter dendrometer small, diameter 0-5cm, 11mm range of sensor, ±1.5µm ±0,12% (CR1000 | 2 | unit | 80,000.00 | - - - 160,000.00 - - - |
| 13 | Hertz: 50/60Hz Temperature Range (Metric): 2° to 35°C Dendrometer bands, Diameter dendrometer small, diameter 0-5cm, 11mm range of sensor, ±1.5µm ±0,12% (CR1000 logger), Resolution 0.2-2.6 µm (dependent on used data | 2 | unit | 80,000.00 | - - - 160,000.00 - - - - |
| 13 | Hertz: 50/60HzTemperature Range (Metric): 2° to 35°CDendrometer bands,Diameter dendrometer small,diameter 0-5cm,11mm range of sensor, ±1.5µm ±0,12% (CR1000logger),Resolution 0.2-2.6 µm (dependent on used datalogger), linearity 1%,thermal expansion coefficient of the sensor <0,2 | 2 | unit | 80,000.00 | - - 160,000.00 - - - - - - |
| 13 | Hertz: 50/60HzTemperature Range (Metric): 2° to 35°CDendrometer bands,Diameter dendrometer small,diameter 0-5cm,11mm range of sensor, ±1.5µm ±0,12% (CR1000logger),Resolution 0.2-2.6 µm (dependent on used datalogger), linearity 1%,thermal expansion coefficient of the sensor <0,2 | 2 | unit | 80,000.00 | - - 160,000.00 - - - - - - 750,000.00 |

| | Measurement Modes : Endpoint and Kinetic Measurements, Well Scanning | | | | - |
|----|--|---|------|------------|------------|
| | Microplate Format : 6 to 1536-well plates, user definable | | | | - |
| | Microplate Carrier : Robot Compatible | | | | - |
| | Cuvette Port : Cuvette port for cuvettes with 10 mm path length, micro cuvettes tray cell compatible, beam height 8.5 mm | | | | - |
| | Light Source : High Energy Xenon Flash Lamp | | | | - |
| | Detectors : Spectrometers with CCD | | | | - |
| | Spectral Range : Absorbance spectrometer: 220- 1000 nm | | | | - |
| | Sensitivity : ABS with Spectrometer | | | | - |
| | Spectral range: 220 to 1000 nm | | | | - |
| | Full spectrum captured in >1 s/well | | | | - |
| | Selectable spectral resolution: 1 nm, 2nm, 5nm, 10 nm | | | | - |
| | OD range: 0 to 4 OD | | | | - |
| | Accuracy: < 1% at 2 OD | | | | - |
| | Precision: < 0.5% at 1 OD and < 0.8% at 2 OD | | | | - |
| | Read Times : Full Spectrum from 220 to 1000 nm in less than one second/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 | | | | - |
| | Integrated : External manual barcode reader | | | | - |
| | Barcode Reader : (optional) | | | | - |
| | Incubation : +3 °C above ambient up to 45 °C | | | | - |
| | Software : Multi-user Reader Control and MARS Data Analysis Software package included | | | | - |
| | Dimension : Width: 36 cm, depth: 50 cm, height: 16 cm; weight: 10 kg | | | | - |
| 15 | Veterinary Portable Ultrasound Machine | 1 | unit | 245,000.00 | 245,000.00 |
| | Thin Magnesium-alloy body | | | | - |
| | At least 15.6" LED HD monitor with slim design | | | | - |
| | Built-in battery providing at least 90 min scanning time | | | | - |
| | High capacity SSD hard drive making patient data safer | | | | - |
| | Inbuilt quick & easy locking system | | | | - |
| | iPower: over 3.5 hours scanning with trolley mounted | | | | - |
| | battery pack | | | | - |
| | Noiseless system | | | | - |
| | Automatic brightness adjustment | | | | - |
| | Reliable RoHS certified materials | | | | - |
| 16 | PORTABLE PH METER WITH PROBE | 1 | unit | 50,000.00 | 50,000.00 |
| | Maximum pH +14pH | | | | - |
| | Minimum pH 0pH | | | | - |

| 1 | pH resolution 0.1pH | | | | - |
|----|--|---|------|------------|------------|
| | Best pH Accuracy ±0.1pH | | | | - |
| - | Maximum Temperature Measurement +60 °C | | | | - |
| | Minimum Temperature Measurement 0°C | | | | - |
| | Temperature Measurement Resolution 0.1°C | | | | - |
| | Best Temperature Measurement Accuracy ±5°C | | | | - |
| | Maximum Conductivity 4mS/cm | | | | - |
| | Minimum Conductivity 0mS/cm | | | | - |
| | Conductivity Resolution 0.01mS/cm | | | | - |
| | Best Conductivitiy Accuracy ±2% | | | | - |
| | Best Total Dissolved Solids Accuracy ±2% | | | | - |
| | Weight 180g- delete | | | | - |
| | Battery life 150 h | | | | - |
| | Maximum Operating Temperature +50°C | | | | - |
| | Maximum Total Dissolved Solids 1999ppm | | | | - |
| | Battery Life 9V | | | | - |
| | Model Number p HI 9813-5N-delete | | | | - |
| | Length 165mm-delete | | | | - |
| | Height 45mm-delete | | | | - |
| | Minimum Operating Temperature 0°C | | | | - |
| | Minimum Total Dissolved Solids 0ppm | | | | - |
| | Width 75mm-delete | | | | - |
| | Dimensions 165 x 75 x 45mm- delete | | | | - |
| | Total Dissolved Solids Resolution 1ppm | | | | - |
| | Power source Battery | | | | - |
| 17 | Pressure cooker, Heavy duty, Aluminum, Liquid Capacity (Qts.): 30, Inside Diameter, Inches: 12.5, Inside Height, Inches: 14, Size: 38H x 42W x 38D cm, Weight: 10 kg-delete | 1 | unit | 70,000.00 | 70,000.00 |
| 18 | Standard Fume hood – Ductless, Fabricated | 4 | unit | 200,000.00 | 800,000.00 |
| | A. Specification | | | | - |
| | Color: Aegean blue | | | | - |
| | External Dimension at least: 1800 x 850x 2400 mm WDH | | | | - |
| | Internal Dimension at least: 1610 x 700 x 1200 mm WDH | | | | - |
| | Two-Base Cabinet at least: 1534 x 450 x 815 mm WDH | | | | - |
| | Flame resistant cabinet | | | | - |
| | Fluorescent light intensity at least: 400 lux | | | | - |
| | Noise level at least: < 72 dba | | | | - |
| | Construction: Main body: (1) Baked epoxy coated 1.2mm | | | | - |
| | electro-galvanized (EG) steel (2) Interior: Epoxy Resin | | | | - |
| | (3) Table Top: Epoxy Resin | | | | - |

| | (4) Sash: Tempered glass at least 6mm thickness | | | | - |
|----|--|---|-----|-----------|-----------|
| | Lighting: at least 2 units energy saver, non-glare | | | | - |
| | & soft fluorescent light of interior illumination | | | | - |
| | Suction Fan: Seat fan blower c/w PP Impeller and housing, | | | | - |
| | IP 55 rated motor | | | | - |
| | Service Fixtures: (1) Polypropylene oval drip cup | | | | - |
| | (2) 1-unit gas fixture | | | | - |
| | (3) 1-unit water fixture and sink | | | | - |
| | (4) 2 units of electrical socket outlet 220-230V | | | | - |
| | Microprocessor with VAV/Airflow sensor | | | | - |
| | Supplied with compatible AVR | | | | - |
| | Certification for standard compliance such as ASHRAE 110-1995 | | | | - |
| | B. Post Sale: Supplier must provide | | | | - |
| | Installation: Equipment and accessories installation, | | | | - |
| | testing and commissioning | | | | - |
| | Training: Provide operational and safety training | | | | - |
| | Diagnostic: Troubleshooting and diagnostic | | | | - |
| | Preventive Maintenance after 1 year of installation | | | | - |
| | Documentation | | | | - |
| | Project status reporting for system set-up | | | | - |
| | Technical and quality documentation | | | | - |
| | Operating manual where applicable | | | | - |
| | Necessary accessories and fixtures during installation such as | | | | - |
| | circuit breakers and other needed materials | | | | - |
| | At-least 2 years product warranty | | | | - |
| 19 | Fire Hose Rack Assembly with Superflex Hose and | 4 | set | 15,000.00 | 60,000.00 |
| | Dry Chemical Portable Fire Extinguisher in Cabinet, see attached picture | | | | - |
| | A. Specification | | | | - |
| | Cabinet | | | | - |
| | Material: 20 Gage Steel Box , 20 Gage Steel Door, | | | | - |
| | 18 Gage Steel Frame | | | | - |
| | ADA: ADA Compliant | | | | - |
| | Inside Box dimension: 30" x 40" x 5" | | | | - |
| | Capacity: at least 100 ft. of Super Flex Hose | | | | - |
| | 1.5 Inch Fire Hose Rack Assembly | | | | - |
| | Pressure: at least 65 PSI | | | | - |
| | GPM: 100 | | | | - |
| | Meets Other Specifications: NFPA/FEMA Class II | | | | - |
| | Length: 100 ft. | | | | - |
| | Regularly Furnished: 1.5 Inch U/L Satin Brass Fog Nozzle | | | | - |
| | Nipple Mounted: 1.5 Inch Satin Brass Hose Rack Nipple | | | | - |

| | Hand-held Fire Extinguisher | | | | - |
|----|--|---|------|--------------|--------------|
| | Regularly Furnished: Red glossy polyester-coated steel | | | | - |
| | cylinder with pressure gauge, wall mounting bracket and | | | | - |
| | hose or nozzle as indicated. Contents stored under | | | | - |
| | pressure at approximately 195 PSI (13.4 bars) | | | | - |
| | Range of Stream: 15 thru 21' | | | | _ |
| | Type of Discharge: Hose & Nozzle | | | | _ |
| | Height: 24" | | | | _ |
| | Diameter: 7" | | | | - |
| | Capacity: 20 Lbs | | | | - |
| | Application: A Class Fire , B Class Fire , C Class Fire | | | | - |
| | B. Post Sale: Supplier must provide | | | | - |
| | Installation: Equipment and accessories installation, | | | | - |
| | testing and commissioning | | | | - |
| | Training: Provide operational and safety training | | | | - |
| | Diagnostic: Troubleshooting and diagnostic | | | | - |
| | Preventive Maintenance after 1 year of installation | | | | - |
| | Documentation | | | | - |
| | Project status reporting for system set-up | | | | - |
| | Technical and quality documentation | | | | - |
| | Operating manual where applicable | | | | - |
| | Necessary accessories and fixtures during installation such | | | | - |
| | circuit breakers and other needed materials | | | | - |
| | At-least 2 years product warranty | | | | - |
| 20 | Fume hood , LABCONCO (for replacement) | 1 | unit | 1,200,000.00 | 1,200,000.00 |
| | 5' hood (60.0" x 50.1 x 30.0") | | | | - |
| | By-pass airflow design; | | | | - |
| | Curved air foil that lifts off for cleaning ; | | | | - |
| | Glacier white powder-coated, 16 gauge steel exterior and interior, | | | | - |
| | Two-piece adjustable baffle , 3/16" thick tempered safety glass vertical-rising sash with powder-coated steel sash handle; | | | | - |
| | Removable front panel for access to electrical wiring | | | | - |
| | ; Right side fixture panel factory-prepared for up to three service fixtures, one duplex electrical receptacle and one airflow monitor (fixtures, receptacle and monitor should be included); | | | | - |
| | Right interior wall factory-prepared for one cupsink and turret (cupsink and turret should be included); | | | | - |
| | Powder-coated steel 10.3" OD exhaust connection | | | | - |
| | Must be included | | | | - |
| | • Remote blower & ductwork (Blower, Damper, Weathercap) | | | | - |

| | Work surface. (SpillStopper, Cupsink) | | | | - |
|----|--|------|------|------------|------------|
| | • Base cabinet or stand. (Base Cabinet for acid, | | | | _ |
| | solvent or standard storage, Base Stand) | | | | - |
| | Service Fixture Kits. (Sash Stop) | | | | - |
| | Electrical Duplex Kits. (Airflow Monitor) | | | | - |
| | Guardian Airflow Monitor Kits. | | | | - |
| | Ceiling Enclosure, Rear Finish Panel Kits and Distillation Grid Kits | | | | - |
| | Must pass the following Standards conformance & regulations: | | | | - |
| | CFR 29, | | | | - |
| | Part 1910; | | | | - |
| | SEFA 1; | | | | - |
| | NFPA 45; | | | | - |
| | ASHRAE 110; | | | | - |
| | ANSI Z9.5*; | | | | - |
| | UL 61010-1; | | | | - |
| | CAN/CSA C22.2 No. 61010.1; | | | | - |
| | UL 1805; SEFA 8; | | | | - |
| | CE Conformity Marking (220V models); | | | | - |
| | Explosion-proof models feature: | | | | - |
| | Explosion-proof 100-watt light fixture (fully furnished with bulb and electrical connections including wirings and switches for 220 V 60 Hz) | | | | - |
| | Models with blower module feature: | | | | - |
| | Belt-driven blower with adjustable sheave; | | | | - |
| | Powder-coated steel base and housing; | | | | - |
| | Corrosion-resistant coated steel impeller ; | | | | - |
| | 3/4 HP blower | | | | - |
| 21 | Mindray Hematology Reagent Set for Mindray BC 3200 - 3 Part Hematology Analyzer (for VSU existing lab equipment) | 1 | set | 140,000.00 | 140,000.00 |
| 22 | 7-hp-3-phase electric motor | 2 | unit | 25,000.00 | 50,000.00 |
| 23 | 12 channel temperature data logger | 1 | unit | 50,000.00 | 50,000.00 |
| 24 | Wireless Digital Rain Gauge with Temperature; Self-emptying collector; Total Hourly, Daily, Weekly, Monthly and Yearly rainfall display; | 1 | unit | 5,500.00 | 5,500.00 |
| | FOR VSU VILLABA | | | | |
| | For Item No. 25 Delivery (FOB) is at VSU Villaba | | | | |
| 25 | Water Bath | unit | 1 | 40,800.00 | 40,800.00 |
| | water bath, temperature range up to +95°C | | | | |
| | with Peltier cooling unit CDP115 from +10°C | | | | - |
| | size: 22 (internal dimensions 22 liters, 350 x 220 x 290 mm) | | | | - |

| | extensive range of accessories: e.g. a Peltier cooling unit, flat or gable cover, shaking device, floor shelf, test tube rack, state-of-the-art control technology, optional water level control | | | | - |
|----|---|----|------|-----------|------------|
| | high quality, corrosion-resistant and easily cleanble | | | | - |
| | stainless steel for the working chamber and | | | | _ |
| | housing | | | | |
| | REBIDDING TOLOSA | | | | |
| | For Items No. 26 to 41 Delivery (FOB) is at VSU Tolosa | | | | |
| 26 | Industrial Balance (30Kg capacity) | 1 | unit | 50,000.00 | 50,000.00 |
| | Accuracy: 1/2/5g (Triple Accuracy) | | | | |
| | Outer Body: Metal Body with MS base plate (with dust cover) | | | | |
| | Display: 0.56'' RED LED with | | | | |
| | Battery: With Inbuilt Dry 6V-4.5Am rechargeable | | | | |
| | battery Colibration: and tauch colibration with external | | | | |
| | Calibration: one touch calibration with external | | | | |
| | standard weight With after sales services and warranty | | | | |
| 27 | Digital binocular microscope | 2 | unit | 80,000.00 | 160,000.00 |
| 21 | Specifications: | 2 | unit | 80,000.00 | 100,000.00 |
| | 1000x | | | | |
| | 3.2 MP Camera | | | | |
| | With tablet 110/240V | | | | |
| | Stereo zoom microscope SZ51-delete, for ringlight, | | | | |
| 28 | bino | 10 | unit | 31,696.10 | 316,961.00 |
| | Optics | | | | |
| | Lighting: none | | | | |
| | Lamp type: - | | | | |
| | Magnification: 40 | | | | |
| | Lens type: zoom lens | | | | |
| | Eyepiece: 10 | | | | |
| | Optical system: Greenough/CMO | | | | |
| | Capacity | | | | |
| | Optical zoom: 0.8-4 | | | | |
| | Mechanics | | | | |
| | Type of build: binocular | | | | |
| | Viewing posture (°): 45° viewing angle, interpupillary distance adjustable from 52-76mm | | | | |
| | Focusing: Coarse movement | | | | |
| | Specimen stage: Stage plate | | | | |
| | Working distance (mm): 110 | | | | |
| 29 | Homogenizer | 1 | unit | 57,200.00 | 57,200.00 |
| | Specifications: | | | | |
| | -2,000 - 27,000 rpm | | | | |
| | -working range 1 - 2,500 ml | | | | |

| L | -digital LCD display on remote controller | | | | |
|----------|---|---|------|-----------|-----------|
| | -timer from 10 sec. up to 15 min. | | | | |
| | -CE certified and unique serial number for tracing | | | | |
| | Version: Unit | | | | |
| | Length (inner): Extension arm: 250 mm | | | | |
| | Width (Outer): 60mm | | | | |
| | Length (Outer): 75mm | | | | |
| | Height (Outer): 215mm | | | | |
| | Diameter (Outer): Extension arm size : Ø12.7 | | | | |
| | Material: ABS & aluminum die-casting | | | | |
| | Ideal for: all disperging and homogenizing applications, | | | | |
| | designed for liquid and tissue samples | | | | |
| | Controller: Digital, remote | | | | |
| | Moisture range: 85% RH | | | | |
| | Speed: 2000-27000 rpm, resolution: 10 rpm | | | | |
| | Capacity: 1-2500ml | | | | |
| | Motor rating: Input: 300W, Output: 160W | | | | |
| | Temperature range: Ambient temperature +5 - 50°C | | | | |
| 30 | Vortex shaker/Mixer | 1 | unit | 98,160.00 | 98,160.00 |
| | Specifications: | | | | |
| | Orbital diameter: 4 mm | | | | |
| | Different modes: Touch, continuous | | | | |
| | Speed setting: 300-4200 rpm | | | | |
| | Max. loading capacity: 500 g | | | | |
| | Dimensions (WxDxH): 205 x 136 x 138.5 mm- delete | | | | |
| | Weight: 2.8 kg-delete | | | | |
| 31 | Gel Electrophoresis System | 1 | unit | 65,866.00 | 65,866.00 |
| | Specifications: | | | | |
| | w/ attached power supply | | | | |
| | Electrophoresis Tank, Safety lid, Power Supply, | | | | |
| | 1 large gel tray and 2 small gel trays, | | | | |
| | 4 combs (13 well and 26 wells) and a gel casting stand | | | | |
| 32 | Taste & Odor Free Residential Water Disinfection UV System | 1 | unit | 27,307.00 | 27,307.00 |
| <u> </u> | Specification: | | | | |
| | System Working Pressure Resistance: (0.6 MPa)6kg/Cm2 | | | | |
| | Alert System for Lamp: One Set | | | | |
| | Raw Water Supplying: Running Water | | | | |
| | Aquatics Fish Egg Tumbler / Incubator Aquarium fish hatchery <i>(for items no. 33 to 36)</i> | | | | |
| 33 | Size: ZET-80 | 5 | рс | 1,555.00 | 7,775.00 |

| | Inner Diameter: 80mm -delete | | | | |
|----|--|---|------|-----------|-----------|
| | Volume: 700ml -delete | | | | |
| | Overall Size: 8.5cmx27cm | | | | |
| | Individual Mount: Yes | | | | |
| | Recommand Use: Big Fish Eggs | | | | |
| 34 | Size: ZET-65 | 5 | рс | 1,555.00 | 7,775.00 |
| | Inner Diameter: 65mm | | | | |
| | Volume: 400ml | | | | |
| | Overall Size: 7cmx23cm | | | | |
| | Individual Mount: Yes | | | | |
| | Recommand Use: Medium Fish Eggs | | | | |
| 35 | Size: ZET-55 | 4 | рс | 1,555.00 | 6,220.00 |
| | Inner Diameter: 55mm | | - | , | , |
| | Volume: 270ml | | | | |
| | Overall Size: 6cmx21cm | | | | |
| | Individual Mount: No | | | | |
| | Recommand Use: Small Fish Eggs | | | | |
| 36 | Size: ZET-E55 | 4 | рс | 1,555.00 | 6,220.00 |
| | Inner Diameter: 55mm | | | , | , |
| | Volume: 200ml | | | | |
| | Overall Size: 6cmx16cm | | | | |
| | Individual Mount: No | | | | |
| | Recommand Use: Special short model | | | | |
| 37 | Refractometer | 2 | unit | 30,000.00 | 60,000.00 |
| | Specifications: | | | | |
| | Scale: Brix | | | | |
| | Measurement Range: Brix: 60 to 100% (Automatic Temperature Compensation) | | | | |
| | Minimum Scale: Brix: 0.5% | | | | |
| | Measurement Accuracy: Brix: ±0.5% | | | | |
| | Repeatability: Brix: ±0.25% | | | | |
| | International Protection Class: IP65 (except eye piece) | | | | |
| | dust-tight and protected | | | | |
| | against water jets | | | | |
| | Dimensions & Weight: 1.26 x 1.34 x 6.61in (3.2 x 3.4 x 16.8cm), 4.59oz (130g)-delete | | | | |
| | Options: 60% Sucrose (±0.05%): RE-110060- delete, Standard liquid LK: | | | | |
| | RE-99010-delete, Daylight plate for small volume samplings: | | | | |
| | RE-2311-58M-delete | | | | |
| | Parts: Daylight plate: RE-2315-60M-delete | | | | |
| 38 | Hatch Aquaculture Test Kit: | 1 | set | 30,000.00 | 30,000.00 |
| | Specifications: | | | | |
| | 4 | | | | |
| | | | | | |

| Te | est Factor | Range | Smallest Increment | Tests | 1 | 1 | | |
|-----|--------------------------------------|--|------------------------------|-------------------|---|------|------------|------------|
| AB | kalinity (P & M) | 0-4.8 gpg | 0.4 gpg | Up to 100 of each | | | | |
| Ar | mmonia | 0-3 mg/L as NH ₃ -N | 0.1 mg/L | 300 | | | | |
| Ca | arbon Dioxide | 5-100 mg/L | 5 mg/L | 100 | | | | |
| 01 | hloride | 5-400 mg/L | 5-20 mg/L | 100 | | | | |
| Dis | ssolved Oxygen | 0.2-20 mg/L | 0.2-1 mgL | 100 | | | | |
| На | ardness | 1-30 gpg as CaCO ₃ | 1 gpg | 100 | | | | |
| Ni | trite Nitrogen | 0-0.5 mgL as NO ₂ -N | 0.01 mgL | 100 | | | | |
| pH | 4 | 4-10 pH | 0.5 pH | 300 | | | | |
| Te | emperature | Armored Thermometer | -30°F to 120°F | Unlimited | | | | |
| 39 | Haemacutor | neter: For Cell o | | | 2 | unit | 18,000.00 | 36,000.00 |
| | | | Journing | | 1 | unit | 140,000.00 | 140,000.00 |
| | Bench top pH/Ion meters Ph/Ion Meter | | | | | | 140,000.00 | 140,000.00 |
| 10 | Specification: | | | | | | | |
| 0 | specification. | | | - | | | | |
| | | Measuring range | Resolution | Accuracy | | | | |
| P | H - | 2.000 to 20.000 | 0.001/0.01/0.1 | ± 0.002 | | | | |
| n | nV - | 2000.0 to 2000.0 | 0.1/1 | ±02 | | | | |
| I | | 0.000 to 1000.0 % 0.000 to 10000.0 ppm 1.00E-9 - 9.99E+9 mg/L, mmol/L, mol/L -2.000 to 20.000 pX | ± last significant di | git ±0.5% | | | | |
| | Temperature MTC | -30.0 to 130.0°C | 0.1°C | ± 0.1°C | | | | |
| | Temperature ATC | -5.0 to 130.0°C | 0.1°C | ±0.1°C | | | | |
| 8 | Connectors | pH Sensor input | BNC (impendance | | | | | |
| | | Temperature sensor input Reference input Communication interfaces Stirrer connector | Cinch/RCA (NTC: 2mm Ref. | 30 kΩ or Pt1000) | | | | |
| P | Power requirements | DC 9-12V/10W | | | | | | |
| s | Size/weight | 204 x 174 x 74mm, 890g | | | | | | |
| A | Ambient conditions | Temperature Relative humidity | +5 to 40°C 5 to 80% (non- | condensing) | | | | |
| 41 | Camera, So | mparison Micro ftware & Laptop |) | CCD | 1 | unit | 325,000.00 | 325,000.0 |
| | | ALANGALAN | | | | | | |
| 42 | 620 grms ca | | • | meter) 600 to | 1 | unit | 45,000.00 | 45,000.0 |
| | Hot Plate w/ Magnetic Stirrer, | | | | | рс | 45,000.00 | 45,000.0 |
| | Plate size: 7.6" (W) x 7.6" (D) | | | | | | | |
| | ceramic coated stainless | | | | | | | |
| : | steel plate | | | | | | | |
| 1 | temperature | range: 600 C to | o 4200 C | | | | | |

| | speed range: 60-1500 rpm | | | | |
|----|--|---|-------|------------|------------|
| | heater: 500 W, with 25 cm stainless rod | | | | |
| 44 | Laboratory chemical storage cabinet, fabrication of cabinet | 1 | unit | 20,000.00 | 20,000.00 |
| | glass door with lock | | | | |
| | Hardwood | | | | |
| | dimension 48"W x 22" D x 84"H | | | | |
| 45 | Laboratory Pressure Cooker, for laboratory | 1 | unit | 40,000.00 | 40,000.00 |
| | metal - to metal seal | | | | |
| | aluminum | | | | |
| | size inner container capacity 41 quart/39liters | | | | |
| | temperature 15 to 25C, 59 to 77F | | | | |
| | equipped with ideal gauge | | | | |
| | control valve, excess pressure relief valve | | | | |
| | and overpressure plug, used over LPG gas | | | | |
| 46 | Laboratory Water Shower with free installation | 1 | unit | 20,000.00 | 20,000.00 |
| 47 | Laboratory Table (Biology), 5 meter x 2 m; height: 0.85 m | 4 | units | 20,000.00 | 80,000.00 |
| | Stainless steel and rubber adjustable feet, it's damping-proof, shipper proof, corrosive-proof | | | | |
| | and with shock absorbing function and with better weight-bearing | | | | |
| | C frame with suspended drawer structure | | | | |
| | artificial stone worktop | | | | |
| | with two sinks in one end | | | | |
| | with two L-shaped faucets assigned in each sink | | | | |
| 48 | Laboratory Table (Physics), 5-meter x 2 m; height: 0.85 m | 4 | pcs | 18,059.00 | 72,236.00 |
| | Stainless steel and rubber adjustable feet | | | | |
| | it's damping-proof, shipper proof, corrosive-proof | | | | |
| | and with shock absorbing function and with better weight-bearing | | | | |
| | C frame with suspended drawer structure; artificial stone worktop | | | | |
| | with two sinks in one end | | | | |
| | with two L-shaped faucets assigned in each sink | | | | |
| 49 | Lab Benches & Cabinets School Laboratory Furniture Standard Lab Bench Height (Center) | 1 | unit | 200,880.00 | 200,880.00 |
| | Total length: 4 meters height width (users' requirement) | | | | |
| | Worktops: 13mm thickness of black Phenolic resin tops edge thickened into 26mm | | | | |
| | Frame: C or H type 60*40*1.5mm thick steel tube with 75µm epoxy resin powder coating | | | | |
| | Cabinet: 18mm thick MDF covered with 0.4mm high pressure laminate on both sides | | | | |
| | Cabinet's color: Blue/Sky blue | | | | |

| | Handle: Embedded aluminium alloy with epoxy resin powder coating | | | | |
|----|---|---|------|------------|------------|
| | Hinge: DTC 105 degree high quality hinge | | | | |
| | Slideway: Self-closing three section slide rail, no | | | | |
| | noise | | | | |
| | Accessories: Pegboard, sink, faucet, gas fitting, sockets, eyewash, exhaust hood lab stools etc | | | | |
| | Shelves: Cold-rolled steel column with glass shelves (with sockets) | | | | |
| | PP sink + Faucet: High grade PP sink with three way cold water faucet (304 SUS body with ceramic valve core) | | | | |
| | Sockets: Aluminum alloy box with electric socket | | | | |
| | Lab stools | | | | |
| | Surface: Polyurethane (or other: Stainless steel, PU leather, FRP) | | | | |
| | Body: Chrome plated, R=260 mm | | | | |
| | Size: Diameter-325mm, Thickness-35-40mm | | | | |
| | Control: Screw Jack or Penumatic jack | | | | |
| | Foot: Fixed foot or moving wheels | | | | |
| | Height: Adjustable-440-590mm or higher | | | | |
| | Chair castor: ESD Nylon castor | | | | |
| 50 | UV-A/B and UV-C light meters | 1 | unit | 20,900.00 | 20,900.00 |
| 51 | Sieve shakers | 1 | unit | 65,000.00 | 65,000.00 |
| 52 | Vacuum Filtration System/Vacuum Pump-delete | 1 | unit | 45,000.00 | 45,000.00 |
| 53 | CALORIMETER, JOULE 4 | 1 | unit | 150,000.00 | 150,000.00 |
| | 3A.Complete with stirrer | | | | <i>i</i> |
| | terminals and heating coil | | | | |
| | lagged and fitted with outer jacket | | | | |
| | lid with hole for thermometer | | | | |
| 54 | GALVANOMETER, SPOT, general purpose | 1 | unit | 40,000.00 | 40,000.00 |
| | sensitivity (direct) in the range 22 mm/microA, 2 mm/microV 70 mm/microC | | | | |
| | double reflecting optical system | | | | |
| | electrical overload protection | | | | |
| 55 | Laboratory Cabinet, Cole-Parmer-delete Wall Cabinet with Glass Sliding, | 2 | unit | 20,000.00 | 40,000.00 |
| 56 | Oscilloscope, dual trace, 20 MHz bandwidth, 8x10 cm screen with scale illumination, adapters to take 4 mm plugs | 1 | unit | 15,000.00 | 15,000.00 |
| 57 | Lab Benches and Cabinets School Laboratory Furniture Standard Lab Bench Height (Center), Total length: 4 meters (users' requirement | 1 | Set | 200,900.00 | 200,900.00 |
| | Worktops: 13mm thickness of black Phenolic resin tops edge thickened into 26mm | | | | |
| | Frame: C or H type 60 mm *40 mm *1.5mm thick steel tube with 75µm epoxy resin powder coating | | | | |
| | Cabinet: 18mm thick MDF covered with 0.4mm high pressure laminate on both sides | | | | |

| | Cabinet's color: Blue/Sky blue | | | | |
|----|--|---|------|------------|------------|
| | Handle: Embedded aluminum alloy with epoxy resin powder coating | | | | |
| | Hinge: DTC 105 degree high quality hinge | | | | |
| | Slideway: Self-closing three section slide rail, no | | | | |
| | noise | | | | |
| | Accessories: Pegboard, sink, faucet, gas fitting, sockets, eyewash, exhaust hood lab stools etc | | | | |
| | Shelves: Cold-rolled steel column with glass | | | | |
| | shelves (with sockets) | | | | |
| | PP sink + Faucet: High grade PP sink with three way cold water faucet (304 SUS body with ceramic valve core) | | | | |
| | Sockets: Aluminum alloy box with electric socket | | | | |
| | Lab stools | | | | |
| | Surface: Polyurethane (or other: Stainless steel, PU leather, FRP) | | | | |
| | Body: Chrome plated, R=260 mm | | | | |
| | Size: Diameter-325mm, Thickness-35-40mm | | | | |
| | Control: Screw Jack or Pneumatic jack | | | | |
| | Foot: Fixed foot or moving wheels | | | | |
| | Height: Adjustable-440-590mm or higher | | | | |
| | Chair castor: ESD Nylon castor | | | | |
| 58 | Electric Microscope* Binocular head, inclined 45° and 360° rotation; * Eyepiece: widefield WFX (F.N.18)-delete with pointer installed; | 2 | unit | 60,000.00 | 120,000.00 |
| | Objective: Achromatic 4X/0.10, 10X/0.25, 40X/0.65, 100X/1.25; | | | | |
| | Nosepiece: revolving quadruple nosepiece for smooth changes in magnification; | | | | |
| | Condenser: focusable 1.25 Abbe condenser; | | | | |
| | Diaphragm: iris diaphragm with filter holder; | | | | |
| | Focusing: Coaxial coarse and fine focusing adjustment in 2 micron increments with upper limit stop to prevent damage to slide or objective; | | | | |
| | Illumination: CORDED LED illumination 20mA, 3.5V,70mW with intensity control; | | | | |
| | Main supply: 220V - 240V; with Dust cover | | | | |
| 59 | LABORATORY SIDE TABLE commercial furniture with shelves, Size: user's requirement 2000x750x800mm, Material: stainless steel, Property: corrosion-resistant, Type: Laboratory Furniture with installation | 1 | set | 100,000.00 | 100,000.00 |