



ADDENDUM NO. 01

Series of 2021

This Addendum No. 01 is issued to modify or amend items in the Bidding Documents for the **Provision of Technical & Scientific Equipment for the operation of CHED-IDEAS Lab**. This shall form an integral part of the Bid Documents.

Name of Project: **Provision of Technical & Scientific Equipment for the operation of CHED-IDEAS Lab**
Location: CSU Campus, Ampayon, Butuan City
Brief Description: Provision of ICT Equipment for the operation of CHED-IDEAS Lab
Approved Budget for the Contract : **Php. 7,180,000.00**
Source of Funds: TRF 2021
Contract Duration: 120 Calendar Days

Please be informed of the changes and the inclusion of design in the Bidding Documents, as follows:

CHANGES/ AMENDMENT					
SPECIFICATION					
FROM			TO		
Contract Duration: 45 Calendar Days			Contract Duration: 120 Calendar Days		
ITEM No.	DESCRIPTION	QTY	UNIT	UNIT COST	TOTAL COST
1	MATERIALS TESTING EQUIPMENT A. 1 Unit Universal Testing Machine with PC and Servo Control Technical Specifications: <ul style="list-style-type: none">Max. Capacity (KN): 1000Range: 2%-100%F.S. (full range, without gear)Reading accuracy: Grade 1(Grade 0.5)Error: $\pm 1\%$ ($\pm 0.5\%$)Resolution (F.S.): 1/2000000F.S. (1/3000000F.S.)Column Number: 6Width between two column: 510Max tensile space(mm): 600Max compression space(mm): 600Bending test distance between two points (mm): 100-400Round specimen clamp diameter(mm): $\phi 20$- $\phi 40$Flat specimen clamp thickness (mm): 0-40Stroke (mm): 200Pistons rise fastest speed (mm/min): 80Beam rising speed (mm/min): 310	1	Lot	₱4,110,000.00	₱4,110,000.00



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<ul style="list-style-type: none"> Displacement reading relative error: $\pm 0.5\%$ Deformation reading relative error: $\pm 0.5\%$ Motor capacity (KW): 2.5 Main unit dimension (mm): 960x620x2100 Oil source cabinet dimension (mm): 1000x600x910 Main unit weight (kg): 2200 Oil source cabinet net weight (kg): 250 <p>Including equipment setup and operation training upon turn-over One (1) year parts and service warranty</p> <p>B. 1 Unit Vicat Apparatus</p> <p>Setting time and consistency of cement Standards: EN 196-3, EN 480-2, EN 13279-2 (gypsum), ASTM C191, AASHTO T131, NF P15-414, P15-431</p> <p>The instrument consists of a metallic frame, graduated scale with index, sliding probe of 300g, consistency plunger $\varnothing 10$ mm, glass base plate.</p> <ul style="list-style-type: none"> Dimensions: 160x200x300 mm Weight: 5 kg approx.. <p>Accessory:</p> <ul style="list-style-type: none"> 1 pc NEEDLE, hardened $\varnothing 1$ mm ASTM – ASHTO 1 pc CONICAL PLASTIC MOULD $\varnothing 60/70$ h 40 mm <p>One (1) year parts and service warranty</p> <p>C. 1 Unit Strain Controlled Triaxial Test Apparatus</p> <p>Specifications:</p> <ul style="list-style-type: none"> Maximum working pressure of the system: 60 MPa Piston diameter: $\varnothing 63$mm, stroke 160mm Piston area: 31.15 square centimeters Maximum pressure: 100K Display mode: digital display Allowable maximum height of sample: 150mm Maximum width of sample: 108mm The digital display has a peak hold function. The cylinder is a self-produced two-way cylinder with good end face stability. Equipped with two-way manual pump for independent loading. With safety shield. <p>Including equipment setup and operation training upon turn-over One (1) year parts and service warranty</p> <p>D. 1 Unit Slump Cone Apparatus</p> <ul style="list-style-type: none"> Slump cone Base Graduated Tamping Rod <p>One (1) year parts and service warranty</p>				
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E. 1 Unit FDT APPARATUS (SAND CONE APPARATUS)

- Density cone
- Density Jug
- Density Plate
- Chisel
- Rubber Mallet
- Sand Scoop
- Tin Can 4 Liters

One (1) year parts and service warranty

F. 1 Unit Strain Controlled Unconfined Compression Apparatus (Unconfined Compression Device)

Strain Controlled Unconfined Compression Apparatus is used to test the pressure value to be borne of soft and cohesive soil specimen with bigger saturation state under the axial pressure without any limit of the sides till its damage so as to obtain unconfined compression strength.

Specifications:

- Capacity: 0.6kN max specimen
- Specimen size: \varnothing 39.1mm x 80mm
- Speed of platen rising: 2.4mm/min.

One (1) year parts and service warranty

G. 1 Unit Digital Concrete Test Hammer (Hardness Tester) with Microprocessor and Calibration Anvil

Standards: EN 12504:Part 2 | ASTM C805| BS 1881:202 | NF P18-417 | DIN 1048 |UNI 9189

During test performing:

- Shows index value
- Shows average index value
- Allows to select measuring system in MPa or psi
- Shows numbers of performed rebounds
- Shows date and time
- Identifies tested element
- Identifies automatically and shows rebound angle
- Shows battery life

Technical Specifications:

- Impact Energy: 2.207 Joule (Nm)
- Measuring Range: 10-120 N/mm²
- Interface: USB
- Power source: 6 rechargeable batteries AA NiMh 2400mAh
- Battery life: 60 hours with automatic shutdown
- Operating temperature: -10°C +60°C
- Supplied complete with data transfer software, data transfer USB cable, battery charger, abrasive stone, carrying case
- Dimensions with case: 330x180x120mm



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	<p>One (1) year parts and service warranty</p> <p>With 1 Unit Calibration Anvil</p> <p>Standards: EN 12504-2 ASTM D5873, C805 Used for periodical obligatory verification of test hammers, as specified by EN standards</p> <ul style="list-style-type: none"> • Dimensions: Ø 150x230 mm • Weight: 3 kg <p>One (1) year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 				
2.	<p>Direct Shear Testing Machine with accessories</p> <p>Specifications:</p> <p>Strain Controlled Direct Shear Apparatus (three speed)</p> <p>Direct Shear Apparatus is a kind of strain controlled direct shear apparatus used to test resisting shear strength of soil specimen. It usually adopts four specimens under the different vertical pressure exerted on the specimens to obtain shear stress when the specimen is destroyed. According to Coulomb's law to confirm the resisting shear strength coefficient, angle of internal friction and coagula force of the soil.</p> <p>"Vertical load: 400kPa, 300kPa, 200kPa, 100kPa, 50kPa (selectable)" Horizontal load: 1.2kN Lever ratio: 1 : 12 Specimen size: 30cm2 Power supply: 220VAC 50Hz</p> <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	1	Unit	₱200,000.00	₱200,000.00
3.	<p>Consolidometer with Micrometer Gauge</p> <p>Specifications:</p> <p>Single-lever Consolidometer (triplex mid pressure)</p> <p>The Consolidation Apparatus is used for compression test of the soil, to determine the relationship between deformation and compression of the soil, to calculate the unit settlement, compression index, resilient index as well as consolidation coefficient of the soil etc.</p> <p>Load pressure:</p>	1	Unit	₱150,000.00	₱150,000.00



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	<p>Low pressure: 12.5kPa - 800kPa/30cm2, 12.5kPa - 400kPa/50cm2 Medium pressure: 12.5kPa - 1600kPa/30cm2, 12.5kPa - 800kPa/50cm2 Lever ration: 12 : 1 Consolidation container: 1 x beam, 2 x beams, 3 x beams Specimen size: 30cm2, 50cm2 Instrument structure: steel structure</p> <p>1-year parts and service warranty</p> <p>Additional Requirement: - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof.</p>				
4.	<p>Point Load Testing Machine with accessories</p> <p>Specifications:</p> <p>Digital Point Load Tester The portable point load tester is an instrument that can easily and compressive strength of rock. It's in accordance with ASTM D5731. Because of the top and fragment loading, the pressure of rock failure is lower than that of conventional presses; The sample does not need to be processed into a regular test piece, which is suitable for on-site measurement and is convenient for the determination of low-intensity rock. This is a simple scientific test tool with convenient, economical and rapid advantages. It can be used for rock mechanics test in coal mine, geology, hydraulics, transportation, construction and other projects.</p> <p>Specification: 1. Maximum working pressure of the system: 60Mpa 2. Piston diameter: ϕ63mm, stroke 160mm 3. Piston area: 31.15 square centimeters. 4. Maximum pressure: 100K 5. Display mode: digital display 6. Allowable maximum height of sample: 150mm 7. Maximum width of sample: 108mm 8. The digital display has a peak hold function. 9. The cylinder is a self-produced two-way cylinder with good end face stability. 10. Equipped with two-way manual pump for independent loading. 11. with safety shield</p> <p>1-year parts and service warranty</p> <p>Additional Requirement: - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof.</p>	1	Unit	₱100,000.00	₱100,000.00



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5.	<p>Hydraulic flume with set of weirs</p> <p>Specifications:</p> <p>Hydraulic Bench Apparatus</p> <p>The Basic Hydraulic Bench permits a varied experimental cross-section in the fundamentals of fluid mechanics. The unit provides the basic equipment for individual experiments, the supply of water in the closed circuit. The determination of volumetric flow rate and the positioning of the experimental unit on the working surface of the base module and the collection of dripping water. The closed water circuit consists of the underlying storage tank with a powerful centrifugal pump and the measuring tank arranged above, in which the returning water is collected. The measuring tank is stepped, for larger and smaller volumetric flow rates. A measuring beaker is used for very small volumetric flow rates. The volumetric flow rates are measured using a stopwatch. The top work surface enables the various experimental units to be positioned easily and safely. A small flume is integrated in the work surface, in which experiments with weirs are conducted.</p> <ul style="list-style-type: none"> • Basic unit for supplying experimental units in fluid mechanics • Closed water circuit with storage tank, pump and measuring tank • Measuring tank divided in two for volumetric flow rate measurements • Measuring beaker with scale for very small volumetric flow rates • Measurement of volumetric flow rates by using a stopwatch • Work surface with integrated flume for experiments with weirs • Work surface with inside edge for safe placement of the accessory and for collecting the dripping water • Storage tank, measuring tank and work surface made of GRP. <p>Technical Data</p> <p>Centrifugal Pump</p> <p>Power consumption: 500~746W</p> <p>Max. flow rate: more than 100L/min</p> <p>Max. head: 32m</p> <p>Storage tank capacity: 175L</p> <p>Measuring Tank</p> <p>At large volumetric flow rates: 40L</p> <p>At small volumetric flow rates: 7L</p> <p>Flume</p> <p>LxWxH: 510x165x170mm</p> <p>Measuring beaker with scale for very small volumetric flow rates</p> <p>Content: 5L</p> <p>Stopwatch</p> <p>Measuring range: 0...9h 59min 59sec</p> <p>Scope of Delivery</p> <p>1 stop watch</p>	1	Unit	₱500,000.00	₱500,000.00
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	<p>1 measuring beaker 1 instruction manual 1 base module (Hydraulic bench)</p> <p>Flow Visualization in Channel</p> <p>Apparatus can be used to visualise flow around drag bodies and flow phenomena in open channels.</p> <p>Either a drag body or weir is fixed in the experimental flume. The streamlines are made visible by injecting a contrast medium. The experimental flume is made of transparent material so that the streamlines and the formation of vortices can easily be observed. The water level in the experimental flume can be adjusted.</p> <p>There is one weir and four different drag bodies available for the experiments. A stabilizer ensures an even and non-vortical flow of water.</p> <p>The experimental unit is positioned easily and securely on the work surface of the Hydraulic Bench or can be position on flat surface of lab with laboratory water supply and proper drain system. The water is supplied.</p> <p>Alternatively, the experimental unit can be operated by the laboratory supply.</p> <p>Experiments</p> <ul style="list-style-type: none"> • How differently shaped weirs affect the flow. • Visualization of streamlines for flow incident to a weir. • Visualization of streamlines when flowing around various drag bodies. <p>Technical Data</p> <p>Experimental flume LxWxH: 600x3x165mm</p> <p>Contrast medium: ink Injection of the contrast medium 5 nozzles</p> <p>Tank for water: 10L</p> <p>Tank for ink: 570mL</p> <p>Drag bodies Streamlined body Guide vane profile</p> <p>Weirs Broad-crested weir Sharp-crested weir</p> <p>Scope of Delivery: 1 experimental module, Assorted drag bodies, 1 instruction manual</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 				
6.	<p>Laboratory Autoclave</p> <p>Working pressure: $21 \pm 1\text{kg/cm}^2$ at 215°C (300psi at 419°F)</p> <p>♦ Pressure vessel: 150 x 500mm depth</p> <p>♦ Weight: 70kg</p>	1	Unit	₱150,000.00	₱150,000.00



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	<p>♦ Heater: 2000W</p> <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 				
7	<p>Petrographic Microscope with accessories</p> <p>Eyepieces and Magnification:</p> <ul style="list-style-type: none"> • WF10X(μ22mm) • Dividing eyepiece (field number: μ22mm) 0.10mm/Div • Four Magnifications: 50x, 100x, 400x, and 600x. • 10x Eyepiece Set. PL 10x/22mm. <p>Objective</p> <ul style="list-style-type: none"> • Strain-free plan achromatic objective (no cover glass) [SEP] • PL L5X/0.12 (Work distance) 26.1 mm [SEP] • PL L10X/0.25 (Work distance) 20.2 mm [SEP] • PL L40X/0.60£ (Work distance) 3.98 mm [SEP] • PL L60X/0.70 (Work distance) 3.18 mm <p>Illuminating System</p> <ul style="list-style-type: none"> • 3W LED, brightness enable control <p>Focus system</p> <ul style="list-style-type: none"> • Coarse Adjustment Travel Range: 28mm. (Stage Movement Distance Up/Down). • Fine Adjustment Division: 0.002mm. <p>Condenser – Iris – Filters</p> <ul style="list-style-type: none"> • Substage Condenser, N.A. 1.2 – 0.22, on Swing, with Two Condenser Alignment Knobs, and Iris Diaphragm • Blue Filter for Base Illuminator <p>Accessories</p> <ul style="list-style-type: none"> • Quartz Wedge 1-4 Order Retarding Compensator Plate: 12x28mm, I-IV. • Mica (One Quarter Wavelength) Retarding Compensator Plate: 18mm Dia., 147.3 nanometers. • Gypsum (One Full Wavelength) Retarding Compensator Plate: 18mm Dia., 1st Order Red 550 nanometers. • Stage Micrometer with 0.01mm Resolution • Measuring Reticle Built into Eyepiece: X-Scale, 10mm in 100 divisions, 0.1mm Resolution. <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	1	Unit	₱250,000.00	₱250,000.00



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8.	<p>Geological Pick</p> <p>10 pcs Geological Hammer</p> <ul style="list-style-type: none"> • Full-polished high carbon steel. • Flat and Pointed hammer. • Ergonomically correct, labor saving. • Head and handle are forged in one piece. <p>TPR shock-reduction grip and will not come off</p> <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	1	Lot	₱50,000.00	₱50,000.00
9.	<p>Rock Coring and Grinding Machines with Accessories</p> <p>Laboratory coring machine and bits is specifically used in the laboratory for cutting core samples from hard materials such as rock and concrete.</p> <p>Laboratory coring machine, 2-speed, complete with water inlet. 230 V, 50-60 Hz, 1 ph</p> <p>Specifications:</p> <ul style="list-style-type: none"> • Power unit: 1800 W • Coring speed: 1485/2720 r.p.m. • Coring range: from 8 to 100 mm dia. • Dimensions of the base tray assembly: 600x500x200 mm <p>A clamp is provided to firmly secure the material during the cutting cycle. The coring area is protected by a transparent cylinder.</p> <p>A special clamping device to prepare rock samples from core pieces and drill bits available for purchase separately.</p> <p>Accessories:</p> <ul style="list-style-type: none"> -Clamping device for cores up to 100 mm dia., complete with transparent guard. -EX core drill bit 21.46 mm dia. -AX core drill bit 30.10 mm dia. -Core drill bit 38.1 mm dia. -BX core drill bit 42.04 mm dia. -NX core drill bit 54.74 mm dia. -Core drill bit, size HQ – 63.5 mm dia. -Core drill bit 50 mm dia. X 130 mm length <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	1	Unit	₱150,000.00	₱150,000.00



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10	<p>Diamond Saw with Accessories</p> <p>Core trimmer and cut-off machine is used to obtain rock samples perfectly machined (cube, prisms, etc) from irregular rock or core pieces. Laboratory core trimmer and cut-off machine complete with water inlet. 230 V, 50 Hz, 1 hp</p> <p>Main features:</p> <ul style="list-style-type: none"> Specifically designed for rock testing laboratories To obtain samples from irregular rock or core pieces Double function of trimmer and cut-off apparatus Complete with safety device conforming to CE requirements <p>It is supplied complete with a proper vice to hold irregular pieces firmly in place up to 70x140 mm approximately and "V" device for cores up to 75 mm dia. Longer cores can be machined by turning the sample upside down in the device. The machine also includes cooling water inlet and transparent cover, conforming to CE requirements, with switch that stops automatically the machine when opened. The machine can be fit with either a cutting blade or a double-faced cup wheel for surfacing cylindrical specimens ends. Blade, cup wheel and water pump are not included and have to be ordered separately.</p> <p>Accessories:</p> <ul style="list-style-type: none"> Cooling recirculating pump complete with reservoir. 230 V, 50 Hz, 1 ph Diamond cutting blade, 230 mm dia. x 2.8 thick. Maximum cutting area 110x70 mm Double faced diamond cup wheel, 200 mm dia. x 16 mm thickness. Used for finishing/grinding sample ends parallel and at right angles to the axis. <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> Certificate of Availability of Technical Personnel for repair and maintenance purposes Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	1	Unit	₱150,000.00	₱150,000.00
11	<p>Unmanned Aerial Vehicle (UAV) / Drone</p> <p>Specifications:</p> <ul style="list-style-type: none"> 1 battery type C cable adaptor, propeller pair, charger, and cable 20c Camera Iconic image quality 20MP 1-inch CMOS image sensor 10-bit Dlog-M Color Profile 	1	Unit	₱250,000.00	₱250,000.00



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	<ul style="list-style-type: none">• HDR Video, 4K 10-bit HDR Support• With f/2.8/11 adjustable aperture• Foldable legs in a small, handy format• Up to 31 min Flight Time• Up to 72 kph, Speed• Low-Noise Design• Omnidirectional Obstacle Sensing• Four panorama modes• Various intuitive shooting modes• Hyperlapse mode-capable <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none">- Certificate of Availability of Technical Personnel for repair and maintenance purposes- Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof.				
12	<p>Total Station</p> <p>Key Features/Specification;</p> <ul style="list-style-type: none">• 1000 Meters reflectorless• 4000m/4km distance range with single prism• Trigger Key for Easy access on measuring mode• 200,000.00 points memory data Upload/Download• Bluetooth and USB Drive Interface• Complete Surveying/Construction Programs on board• Electronic Bubble; Direct data plotting on main screen• Alphanumeric Keys for Easy and Quick Data Input• MS Windows Compatible; GPS data ready• Data Text, DXF, CSV / AutoCAD Ready <p>Complete with;</p> <p>2x-Battery packed (Rechargeable) 1x-Quick Charger</p> <p>1x-Software</p> <p>1x-Quick reference guide</p> <p>1x-Calibrating tools</p> <p>1x-Aluminum Tripod (Triple lock) 1x-Prism Set with Rangepole</p> <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none">- Certificate of Availability of Technical Personnel for repair and maintenance purposes- Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof.	2	Unit	₱200,000.00	₱400,000.00
13	<p>Water Depth Level</p> <p>Specifications:</p> <ul style="list-style-type: none">• Reels: with stand alone design, convenient carrying handle, and sturdy probe holder. Equipped with an on/off sensitivity switch, light, buzzer, battery test button, brake and a tape guide stored on a frame.	4	Unit	₱80,000.00	₱320,000.00



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	<ul style="list-style-type: none"> Probe: submersible up to 1000 ft. (300m) Size of probe (P2 probe): 0.55" dia., 7.5" long (14 mm x 190 mm) Weight of probe: ~7 ounces (200 g) Length of probe: 100 ft- 300 ft (30m-100m) Tape: Accurate markings 1/100 ft or millimeter, sensitivity adjustable to conductivity, Probes avoid false readings in cascading water, Permanent laser markings, Non-stretch PVDF tape with stainless steel conductors, Rugged, corrosion proof components, Strong, flexible tapes, PVDF replacement tapes are interchangeable with other meters, Carrying case: Small and medium padded nylon carrying cases are available, as an optional extra. Their design has a convenient shoulder strap, zippered front pocket, zippered top, and a grommet in the base to prevent moisture build-up. <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 				
14	<p>Flow Meter/Current Velocity Meter</p> <p>Specifications:</p> <ul style="list-style-type: none"> Range: 0.10 m/s to 7.5 m/s Depth Range: With unlimited measured depth rating/capability Weight in air: 200 to 250 grams or equivalent Weight in water: 113 grams Materials: Nickel-plated brass nose cone; polycarbonate body or similar material; stainless steel main rotor and idler gear shafts for corrosion-free operation. Rotor Diameter: 6 to 10 cm Data Display: 7 ten digit counter wheels Tethering: Rotor assembly should come with 20 meter rope to enable measurement from bridge Mount: Universal bridle allowing single point connecting for towing or two point connection Accessories: 10lb or 5kg weight/sinker <p>1-year parts and service warranty</p> <p>Additional Requirement:</p> <ul style="list-style-type: none"> - Certificate of Availability of Technical Personnel for repair and maintenance purposes - Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof. 	4	Unit	₱80,000.00	₱320,000.00



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15	Soil Moisture Meter Digital Soil Moisture Meter includes a heavy-duty probe to enable quick and accurate readings of moisture levels in soil or compost. Data is displayed quickly on an LCD screen. The ideal tool for anyone who needs to monitor moisture levels in soil, it is utilized by landscapers, soil scientists, nursery managers, turf managers and in many other fields where soil moisture needs to be monitored. SPECIFICATIONS <ul style="list-style-type: none">• Display LCD Size: 28 x 19 mm (1.1 x 0.75")• Measurement Range: 0 to 50% moisture content on soil• Resolution: 0.1%• Accuracy: $\pm(5\% + 5 \text{ d})$ full scale @ 23°C (73°F) $\pm 5^\circ$• Probe: 2 pins moisture electrode• Data Hold: Freeze the display reading• Sampling Time: Approx. 0.8 sec• Operating Temperature: 0 to 50°C (32 to 122°F)• Operating Humidity: Less than 80% RH• Power Supply: 4 "AAA" batteries (included)• Current Draw: Approx. DC 5 mA• Weight: 267 g (0.58 lb)• Dimensions:<ul style="list-style-type: none">• Meter: 172 L x 40 W x 40 mm D (6.8 x 1.6 x 1.6")• Probe: 202 L x 10 mm D (8 x 0.4")• Total Length (Meter/Probe): 374 mm (14.7") 1-year parts and service warranty Additional Requirement: <ul style="list-style-type: none">- Certificate of Availability of Technical Personnel for repair and maintenance purposes- Document/s reflecting the name of the technical personnel who will conduct the repair & maintenance upon the request of the University attaching further contract/agreement as proof.	4	Unit	₱20,000.00	₱80,000.00
				TOTAL	7,180,000.00

For guidance and information of all concerned.


ARMIE LEILA M. MORDENO, DPA, CSEE
BAC Chairperson

Received by the Bidder:

