

SCAN HERE



PR-2024-0913-222707



Republic of the Philippines  
**VISAYAS STATE UNIVERSITY**  
 Visca, Baybay City, Leyte

## PURCHASE REQUEST

PPMP No. : **PPMP-2024-090424-0402**PR No.: **STF-2024-09-01699**Date: **09-13-2024**Dept./Office: **DCE**Category: **Calibration Services**Section/End-User: **Haide B. Cuevas**Project Title/Code: **STF-PY**Funding Source: **Special Trust Fund**

Item #	Item Description	Unit	Qty	Unit Cost	PAR/ICS	Total Cost
1	<b>30kN Medium Pressure Triaxial Test Set</b>	set	1	30,000.00		30,000.00
<b>Specification:</b> <ul style="list-style-type: none"> <li>• <b>Sample Size:</b> <ul style="list-style-type: none"> <li>◦ 39.1 x 80 mm</li> <li>◦ 61.8 x 125 mm</li> </ul> </li> <li>• <b>Axial Load:</b> 30 kN</li> <li>• <b>Max Stroke:</b> 50 mm</li> <li>• <b>Max Confining Pressure:</b> 2.5 MPa</li> <li>• <b>Max Back Pressure:</b> 1 MPa</li> <li>• <b>Pore Water Pressure:</b> 0 ~ 2 MPa</li> <li>• <b>Volume Change Range:</b> 0 ~ 50 ml</li> <li>• <b>Min. Division:</b> 0.1 ml</li> <li>• <b>Axial Displacement Measure Range:</b> Dial gauge 0 ~ 30 mm</li> </ul>						
2	<b>CBR Apparatus</b>	set	1	30,000.00		30,000.00
<b>Specification:</b> <p><b>Specification:</b></p> <ol style="list-style-type: none"> <li>1. Max. load: 30kN, 50kN capacity.</li> <li>2. Test speed: 1 mm/min (BS standard ) or 1.27 mm/min (ASTM/EN standard)</li> <li>3. Size of the penetration rod: Dia. 50×100mm</li> </ol>						
3	<b>Digital Balance</b>	pc	1	5,000.00		5,000.00
<b>Specification:</b> <p>Maximum capacity [Max]: 1000g</p> <p>Readability [d]: 1mg</p>						
4	<b>Digital Balance Bench</b>	pc	1	5,000.00		5,000.00
<b>Specification:</b> <p>Specifications:</p> <p>Max: 10 kg</p>						

Min: 20 g

e=d= 1g

T = -10, 000 kg

5	Direct Shear Board	set	1	180,000.00		180,000.00
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**Specification:**

- **Round Max. Vertical Loading:** 400 kPa
- **Corresponding Weights:**
  - 1.275 kPa
  - 2.55 kPa
  - 5.1 kPa
  - 7.65 kPa
  - 10.2 kPa
  - (The hanging plate as per the first-grade loading)
- **Lever Ratio:** 1:12
- **Soil Sample:**
  - Area: 30 cm<sup>2</sup>
  - Height: 2 cm
- **Maximum Horizontal Shearing Force:** 2000 N
- **Handwheel Speed:**
  - 4 RPM
  - 12 RPM
- **Corresponding Shear Rate:**
  - 0.8 mm/min
  - 2.4 mm/min
- **Sample Size:** Diameter 61.8 mm x 20 mm
- **Power Supply:** AC 220V (+5%, -5%)

Repair and maintenance

6	Hydrometer 152H	pcs	5	5,000.00		25,000.00
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**Specification:**

**Description:**

- **Type:** Soil Hydrometer 152H

**Standards:**

- **ASTM/AASHTO Standard:** Yes
- **BS 1377:** Yes
- **EN 1997-2:** Yes
- **ASTM D422:** Yes
- **ASTM E100:** Yes
- **AASHTO T88:** Yes

**Graduation:**

- **Range:** -5 to +60 g/litre

**Calibration:**

- **Temperature:** 68°F

**Construction:**

- **Design:** Molded, seamless

**Scale:**

- **Type:** Bouyoucos; double scale

**Weight:**

- **Net Weight:** 4 oz. (113 g)

7	<b>Triplex Mid-Pressure Triaxial Machine</b>	set	1	40,000.00		40,000.00
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**Specification:**

- **Net Weight (without weights):** 85 kg
- **Overall Dimensions:** 685 x 800 x 1100 mm
- **Soil Sample Container Test Model:**
  - Each instrument includes two sets of container test models
  - Each set is tested for two soil sample areas:
    - 30 cm<sup>2</sup>
    - 50 cm<sup>2</sup>
  - Soil sample height: 20 mm

**Technical Index**

- **Sample Area:**
  - 30 cm<sup>2</sup>
  - 50 cm<sup>2</sup>
- **Medium Pressure Range:**
  - 30 cm<sup>2</sup>: 12.5 - 1600 Kpa
  - 50 cm<sup>2</sup>: 12.5 - 800 Kpa
- **Soil Sample Height:** 20 mm

8	<b>Universal Testing Machine Computer Display</b>	set	1	50,000.00		50,000.00
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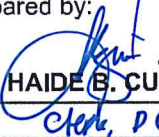

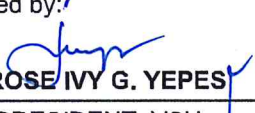
**Specification:**

- **Maximum Test Force:** 600 kN
- **Grip Method:** Hydraulic Grip
- **Transmission:** Chain
- **Measuring Range of Testing Force:** 1% - 100% FS
- **Accuracy of Deformation Measurement:** ±0.5%
- **Clamping Diameter of Round Specimen:** ?13 - ?40 mm
- **Clamping Width of Flat Specimen:** Max. 80 mm
- **Clamping Thickness of Flat Specimen:** 0 - 30 mm

- Testing Space for Tension: 540 mm
- Testing Space for Compression: 470 mm
- Effective Distance Between Columns: 525 mm
- Upper and Lower Compression Platen Size: 205 x 205 mm
- Piston Stroke: 250 mm
- Distance for Bending by Pass Roll: 30 - 380 mm
- Power Supply: 220V, 60 Hz, Single Phase
- Dimensions of Host Machine: 920 x 610 x 2200 mm

	<b>TOTAL</b>					<b>365,000.00</b>
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Purpose: For the calibration and maintenance of laboratory equipment required by the CHED for COPC Application of BSCE Program

Checked by:		Funds Available:	
 <b>GENESIS C. ALBARICO</b>		 <b>ALICIA M. FLORES</b>	
TWG - Laboratory Equipment		HEAD, BUDGET OFFICE	
Signature:	Prepared by:	Noted by:	Approved by:
	 <b>HAIDE B. CUEVAS</b>	 <b>EPIFANIA G. LORETO</b>	 <b>PROSE IVY G. YEPES</b>
Designation:	<i>Chief, PCE</i>	UNIT HEAD, PROJECT LEADER	PRESIDENT, VSU