

Republic of the Philippines  
**KALINGA STATE UNIVERSITY**  
 Tabuk City, Kalinga  
**PURCHASE ORDER**

Supplier : **STATE ALLIANCE ENTERPRISES, INC.** P.O. No. : **2024-06-0535**  
 Address : **283 G. DE RIVERA STREET, SAN NOCOLAS, MANILA** Date : **June 27, 2024**  
 TIN : **002-644-279-000** Mode of Procurement : **Public Bidding**  
 Requisitioning Unit/Department: **CEIT**

Gentlemen:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery : **KSU-Supply Office, Bulanao Campus** Delivery Term : **FOB DESTINATION**  
 Date of Delivery : **180 calendar days after the receipt of PO by the supplier** Payment Term : \_\_\_\_\_

Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
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**PROCUREMENT OF ELECTRICAL POWER SYSTEMS LABORATORY TRAINER**

1	Lot	<b>Transmission Line Simulator (PSL30)</b> <b>Key Features</b> <ul style="list-style-type: none"> <li>• Fault application switch and earth fault resistors allow studies of earth fault currents and the operation of relays of varying sensitivity</li> <li>• Enables 'Pi' or 'Tee' methods of loss profiling</li> <li>• Single and three-phase lines for separate tests</li> <li>• Built-in industrial-standard digital protection relay gives wide range of functions – module includes extra socket for additional relay to give more experiments •</li> </ul> <b>Key</b> <b>Specifications</b> <ul style="list-style-type: none"> <li>• Single-phase and three-phase lines</li> <li>• Six-section three-phase line</li> <li>• Resistive, inductive and capacitive loads</li> <li>• Overcurrent protection relay</li> </ul>	1	26,490,000.00	26,490,000.00
<b>Page 1 of 8 sub-total</b>					<b>26,490,000.00</b>

(Total Amount in Words) *Twenty-Six Million Four Hundred Ninety Thousand Pesos*

In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s.

Conforme:

Signature over Printed Name of Supplier

Date: **JULY 9, 2024**

Very truly yours,

**EDUARDO T. BAGTANG, CPA, DBM**

President

Requisitioning Office/Dep't

Fund Cluster :

Funds Available :

ORS/BURS No. :

Date of the ORS/BURS:

**LORNA C. VALDEZ**

Administrative Officer V

**ARNOLD A. TANDING, CPA, MBA**

Supervising Administrative Officer/ Head, Accounting Unit

Amount : \_\_\_\_\_

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		<b>Learning Outcomes Single-phase line:</b> <ul style="list-style-type: none"> <li>• Short-line investigation</li> <li>• Medium or long-line investigation (nominal 'Tee' and 'Pi' methods)</li> <li>• Effect of power and reactive power flow on voltage drop and transmission angle</li> <li>• Medium/long-line investigation of a natural load of a line</li> <li>• Voltage regulation at constant load and power factor</li> </ul> <b>Three-phase lines:</b> <ul style="list-style-type: none"> <li>• Per-unit values</li> <li>• Unbalanced loads and the neutral connection</li> <li>• Fault simulation and line protection studies</li> <li>• Parallel feeders and multi-section lines</li> </ul> <b>The single-phase transmission line includes a set of inductive impedances connected in series. Tapping points allow the user to:</b> <ul style="list-style-type: none"> <li>• change the length of the simulated line;</li> <li>• set up 'Pi' or 'Tee' methods of loss profiling using different values of capacitance; and</li> <li>• monitor the voltage, current and power at any point along the line.</li> </ul>			
<b>Page 2 of 8 sub-total</b>					<b>0.00</b>

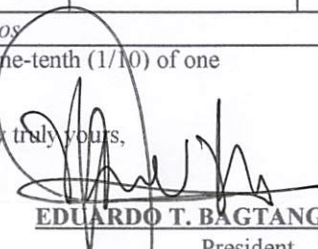
(Total Amount in Words) Twenty-Six Million Four Hundred Ninety Thousand Pesos

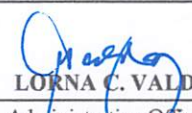
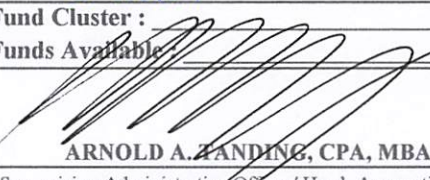
In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s.

Conforme:

  
**JOSE R. BAGTANG, CPA, DBM**  
 Signature over Printed Name of Supplier  
 Date: JULY 3, 2024

Very truly yours,

  
**EDUARDO T. BAGTANG, CPA, DBM**  
 President

Requisitioning Office/Dep't	Fund Cluster : Funds Available	ORS/BURS No. : Date of the ORS/BURS:
 <b>LORNA C. VALDEZ</b> Administrative Officer V	 <b>ARNOLD A. ZANDIG, CPA, MBA</b> Supervising Administrative Officer/ Head, Accounting Unit	Amount : _____



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Stock/ Property No.	Unit	Description	Quantity	Unit Cost	Amount
		<p>The three-phase transmission line is in six sections represented in 'per-unit' values. Facilities include:</p> <ul style="list-style-type: none"> <li>• Operating under variable balanced or unbalanced RLC (resistive, inductive and capacitive) loads</li> <li>• Selectable neutral</li> <li>• Provision to vary the length parameters Line Simulation: Inductors, with three-phase line represented in per-unit values</li> </ul> <p><b>Three Phase Lines:</b>            Five sections, each at 0.15 p.u. value: 75 km of 132 kV line on a 100 MVA base            One section at 0.25 p.u. value: 125 km of 132 kV line on a 100 MVA base            Three - phase load banks : Resistive, inductive and capacitive</p>			
<b>Page 3 of 8 sub-total</b>					<b>0.00</b>

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Conforme:

Signature over Printed Name of Supplier

Date: *July 3, 2024*

Very truly yours,

**EDUARDO T. BAGTANG, CPA, DBM**

President

Requisitioning Office/Dep't	Fund Cluster : Funds Available :	ORS/BURS No. : Date of the ORS/BURS: _____
<i>Lorna C. Valdez</i> <b>LORNA C. VALDEZ</b> Administrative Officer V	<i>Arnold A. Tandig</i> <b>ARNOLD A. TANDING, CPA, MBA</b> Supervising Administrative Officer/ Head, Accounting Unit	Amount : _____

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		Other controls and instrumentation: • Phase angle meter for single-phase and three-phase • Fault switch • Single-phase and three-phase selectable capacitor banks for p and T networks • Switchable neutral from transformer secondary Protection relay: Overcurrent relay <b>Includes</b> Power factor load bank (PSA40) Key features • Phase power factors independently adjustable from leading to lagging • Phase loads independently adjustable • Maintains the power factor even when the load is adjusted • For use with single and three-phase circuits • For use as a three-phase star or delta-connected load • Mobile unit for ease of use • Self-contained, needs no external power • Coloured, shrouded sockets for increased safety • Creates balanced and unbalanced loads on three-phase circuits			
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Conforme:

Signature over Printed Name of Supplier

Date:

Very truly yours,

**EDUARDO T. BAGTANG, CPA, DBM**

President

Requisitioning Office/Dep't

Fund Cluster :

Funds Available :

ORS/BURS No. :

Date of the ORS/BURS:

**LORNA C. VALDEZ**

Administrative Officer V

**ARNOLD A. TANDING, CPA, MBA**

Supervising Administrative Officer/ Head, Accounting Unit

Amount :



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		The load bank provides three separate inputs: Lines 1, 2 and 3. This allows it to work with single and three-phase circuits. Each line is independent, which allows it to connect with the others as a star or delta load.			
		The load bank includes three separate banks of resistive, inductive and capacitive loads. They give a choice and combination of types of loads to give unity (resistive only) and leading or lagging power factor. A voltage-selector switch allows the load bank to work with different line voltages for single and three-phase circuits. Each bank (line) may be set to different values, to give an unbalanced load for balanced and unbalanced load tests.			
		<b>Terms and Conditions:</b>			
		a) All equipment and components should be branded (not clone, imitation, or assembled) and brand new. The units should be delivered duly packed and sealed by the direct company/ manufacturer.			
		b) Availability of parts in the local market by local distributor.			
		<b>Page 5 of 8 sub-total</b>			<b>0.00</b>

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Conforme:

**JOSE P. MANALO, CPA**  
 Signature over Printed Name of Supplier  
 Date: **July 2, 2024**

Very truly yours,

**EDUARDO T. BAGTANG, CPA, DBM**  
 President

Requisitioning Office/Dep't	Fund Cluster : Funds Available :	ORS/BURS No. : _____ Date of the ORS/BURS: _____
<b>LORNA C. VALDEZ</b> Administrative Officer V	<b>ARNOLD A. TANDING, CPA, MBA</b> Supervising Administrative Officer/ Head, Accounting Unit	Amount : _____

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		c) Provision of Technical Data Sheet indicating the brand name and model of item/s.			
		d) Provision of Operations and Maintenance Manual of the item/s, if applicable.			
		e) The supplier shall conduct training on the use of the delivered item/s using the operations and maintenance manual provided.			
		f) The item/s as specified in this Technical Specifications shall be delivered only to the address indicated herein to be received by authorized personnel.			
		g) The Supplier shall notify the indicated authorized receiving personnel at the Project Site at the scheduled date of delivery at least three (3) working days in advance, and shall ensure that the authorized receiving personnel of the Purchaser is present during the date and time of delivery. The Receiving Personnel reserves the right to refuse to receive/accept delivered Goods made before 8:00 A.M. or after 5:00 P.M. and non-working days.			
		h) The Supplier shall replace any rejected item within fifteen (15) calendar days from receipt of a written notice from the end-user.			
Page 6 of 8 sub-total					<b>0.00</b>

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Conforme:

Signature over Printed Name of Supplier

Date: *June 27, 2024*

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**EDUARDO T. BAGTANG, CPA, DBM**  
 President

Requisitioning Office/Dep't

Fund Cluster :  
 Funds Available :

ORS/BURS No. : \_\_\_\_\_

Date of the ORS/BURS: \_\_\_\_\_

**LORNA C. VALDEZ**

Administrative Officer V

**ARNOLD A. TANDING, CPA, MBA**

Supervising Administrative Officer Head, Accounting Unit

Amount : \_\_\_\_\_



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		i) Prior to issuing the Certificate of Complete Deliveries, the item's testing and sealing must be conducted with the end-users, Inspectorate Team or TWGs. The winning supplier shall provide other unforeseen peripherals and accessories necessary for the equipment to function and be operational.			
		j) After the Testing and Sealing, the Supplier shall be evaluated and will conform to the end user's evaluation rating results as a requirement for payment.			
		k) 5 years warranty of service for system and device/equipment based on the unit will start after the turn-over and orientation of the end-user.			
		l) The total price offered/quoted is subject to withholding tax and payable checks.			
		m) During or after the delivery, the Supplier shall submit the following requirements: 1. Delivery Receipt 2. Supplier's Sales Invoice 3. Operations and Maintenance Manual 4. Warranty or KSU will deduct the allowed maximum retention money at 5% on the total value of the items.			
<b>Page 7 of 8 sub-total</b>					<b>0.00</b>

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Conforme:

Signature over Printed Name of Supplier  
 Date: *July 3, 2024*

Very truly yours,

**EDUARDO T. BAGTANG, CPA, DBM**  
 President

Requisitioning Office/Dep't	Fund Cluster : Funds Available :	ORS/BURS No. : Date of the ORS/BURS:
 <b>LORNA C. VALDEZ</b> Administrative Officer V	 <b>ARNOLD A. TANDING, CPA, MBA</b> Supervising Administrative Officer/ Head, Accounting Unit	Amount :

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		After Sales Requirements:			
		n) Under warranty coverage: If unrepairable within 7 days, a free service backup unit (1:1) or service spare part of the same or higher specification must be provided by the supplier until the defective unit/part is considered repaired/replaced.			
		o) Under warranty Coverage: Supplier warrants that the Electrical Power Systems Laboratory Trainer will be free from material defects for a period of 5 years from the date of installation or commencement of use, whichever is earlier.			
		p) Under warranty Coverage: During the Warranty Period, supplier will provide support and maintenance to correct any material defects in the Electrical Power Systems Laboratory Trainer at no additional charge.			
		q) Monday to Friday, Supplier will provide technical support and services during normal office hours.			
		r) Capable of providing technical service/assistance within 24 hours OR next business day on-site (NBDOS) service warranty.			
		<b>Page 8 of 8 sub-total</b>			<b>0.00</b>
		<b>GRAND TOTAL</b>			<b>26,490,000.00</b>

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Conforme:

*JACE*  
 Signature over Printed Name of Supplier  
 Date: *JUN 29, 2024*

Very truly yours,

*Eduardo T. Bagtang*  
**EDUARDO T. BAGTANG, CPA, DBM**  
 President

Requisitioning Office/Dep't	Fund Cluster : Funds Available :	ORS/BURS No. : Date of the ORS/BURS: _____
<i>Lorna C. Valdez</i> <b>LORNA C. VALDEZ</b> Administrative Officer V	<i>Arnold A. Tanbing</i> <b>ARNOLD A. TANBING, CPA, MBA</b> Supervising Administrative Officer/ Head, Accounting Unit	Amount : _____