



# PURCHASE ORDER

**DELIVERY DUE DATE:** 05/31/23

Procurement Unit

Telephone No.: 045-606-8142/606-8157

Supplier : **INNOVATIVE CONCEPT MARKETING**  
Address : Unit B, Surehot Sportville 2848, Jose Abad Santos St., Tondo, Manila  
Type of Business: Merchandising Business  
TIN#: 175-740-204-000  
Tel. No. : (02) 8741-1747/ 0917-794-2614

PR No.: 2023-01-001

PO No.: 2023-027

Date: 1/25/2023

Mode of Procurement: Public Bidding

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Date of Delivery: \_\_\_\_\_

Delivery Term: 120 Calendar Days

Payment Term: N/30

Item No.	Unit	Description	Quantity	Unit Cost	Total Cost
1	lot	<p><b>UPGRADING OF ELECTRONICS ENGINEERING LABORATORY EQUIPMENT</b></p> <p><b>1 Set Telecommunications Teaching Simulation Software, Perpetual License, Web Browser Access, Cloud-Based</b></p> <p>The software uses a block diagram approach in constructing telecommunications experiments, based on a continuously running DSP engine supported by a massive suite of documented analogue and digital experiments.</p> <p>The software can be used by instructors and students to create and simulate laboratory experiments and test hypotheses virtually on and off campus before performing the hands-on laboratory experiments.</p> <p>The Applications can be accessed by students through a URL and logging in a Username and Password.</p> <p>To build experiments, the student can select modules from the Menu and place the modules on available slots and patch inputs and outputs to complete the conceptualized system for the experiment; the student can then perform the experiment, measure, adjust, and view results instantaneously like working with real instruments. The student can Save the experiment and Load it when needed.</p> <p>The functions to set up the experiments are displayed on the screen and no programming or syntax is required.</p> <p>The following building blocks are available for building the experiments: 100 kHz Channel Filters, 3-Input Adder, 60 kHz LPF, Adder, Audio Oscillator, Baseband Channel Filters, Bit Clock Regen, Block Code Encoder, CDMA Decoder, Decision Maker, Delta Modulation Utilities, Delta Demodulation Utilities, Digital Multimeter, Digital Utilities, Dual Analog Switch, Dual Tunable LP, Error Counter, FIR, FM Utilities, Headphone Amp and LPF, Laplace, Laplace Biquad, Line-Code Encoder, Line-Code Decoder, M-Level Encoder, M-Level Decoder, Master Signals, <math>\pi/4</math>-DQPSK, OQPSK, MSK Mod <math>\pi/4</math>-DQPSK, OQPSK, MSK Dem, Multiple Sequences Source Multiplier, Noise Generator, PCM Encoder, PCM Decoder, Phase Shifter, Quadrature Phase Splitter, Sequence Generator, Sequence Generator: Signals &amp; Systems, SONET STS-1 Mux, SONET STS-1 Demux, Speech, Switch, Twin Pulse Generator, Utilities, Var DCV and Amplifiers, VCO, VCO/FSK, Wideband Oscillator, z-Biquad, and z-Transform.</p> <p>The software employs a cloud-based (e.g., Google Server) method to control student access of the licensed software through a username and password. No elaborate setup is required by the student or the instructor. The username and password can be assigned to a group, a class, or to each student.</p> <p>The instructor will be able to monitor the students' utilization of the program via an online administration page which can also provide statistics on usage. The license is perpetual.</p>	1	13,480,816.00	<b>13,480,816.00</b>

(Total Amount in Words) Thirteen Million Four Hundred Eighty Thousand Eight Hundred Sixteen Pesos Only

Warranty shall be for a period minimum of three (3) months for expendable supplies, or a minimum period of one (1) year for non-expendable supplies. In case of failure to make 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.

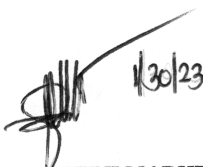
Very truly yours,

DR. GRACEN. ROSETE

Vice President for Administration

Authorized Official

Conforme:

 1/30/23

**INNOVATIVE CONCEPT MARKETING**

(Signature over printed name & date)

Bank Account Name: \_\_\_\_\_

Bank Account Number: \_\_\_\_\_

Bank Name: \_\_\_\_\_

Bank Address: \_\_\_\_\_

COMMISSION ON AUDIT - TSU

RECEIVED

JAN 31 2023

Funds Available:

JASPER A. VAUDER, CPA

Budget Officer

ALOBS No. : 06-101101-2023-01-0001

Amount : ₱ 13,480,816.00



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		<p><b>5 Sets Advanced Telecommunications Experimenter</b></p> <p>Power Source: Multi-voltage plug pack Power Supply: 9 V to 15 V DC, 1 A maximum Protection: Reverse polarity and self-resetting circuit breaker protection above 16 V Absolute Maximum Supply Input: 30 V DC Operating Temperature Range: 10 0C to 30 0C Storage Temperature Range: 5 0C to 40 0C Humidity: Up to 90 % RH, non-condensing Accessories: 2 mm stackable patch cords (20 pcs), 2 mm to-BNC coaxial oscilloscope leads (3 pcs), 24-ohm lightweight stereo headphones (1 pc), 3.5 mm male stereo plug, multi-input voltage plug pack with 12 V/1 A output, regulated (tip is positive)</p> <p><b>5 Sets Quadrature Phase Shift Keying (QPSK) and Multi Experiment Board,</b></p> <ul style="list-style-type: none"> <li>• QPSK modulation</li> <li>• QPSK demodulation</li> <li>• Noisy bandpass channel</li> <li>• Line-Code Decoding</li> <li>• DPSK modulation and demodulation</li> <li>• FM PLL demodulation</li> </ul> <p><b>5 Sets Multi Experiment Board</b></p> <ul style="list-style-type: none"> <li>• Analog and digital electronics circuits experiments</li> </ul> <p><b>5 Sets Fiber Optics Transmitter and Receiver Experiment Board</b></p> <ul style="list-style-type: none"> <li>• Includes three independent functional blocks, providing an electrical-optical and optical-electrical interface</li> <li>• Enables a complete optical link for analog or digital signals</li> </ul> <p><b>5 Sets Fiber Optics Couplers and Filters Experiment Board</b></p> <ul style="list-style-type: none"> <li>• Includes three independent functional blocks</li> <li>• Complete bi-directional and fiber optic links</li> <li>• Optical signal splitting and combining</li> <li>• Fiber optic bi-directional communications</li> <li>• Wave division multiplexing link</li> </ul>			

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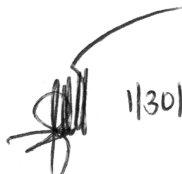
Very truly yours,

**DR. GRACE N. ROSETE**

Vice President for Administration

Authorized Official

Conforme:

 1/30/23

**INNOVATIVE CONCEPT MARKETING**

(Signature over printed name & date)

Bank Account Name: \_\_\_\_\_

Bank Account Number: \_\_\_\_\_

Bank Name: \_\_\_\_\_

Bank Address: \_\_\_\_\_

Funds Available:

**JASPER ALVARADO, CPA**  
Budget Officer

COMMISSION ON AUDIT - TSU  
**RECEIVED**  
JAN 31 2023

ALOS No. : 06-101101-2023-01-0001

Amount : ₱ 13,480,816 -



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Item No.	Unit	Description	Quantity	Unit Cost	Total Cost
		<b>5 Sets Physics of Fiber Experiment Board</b> • Guiding light using total internal reflection • Losses in fiber optic networks • Polarization • Bending losses in fiber optic systems • Connectors Accessories: Laser source (1 pc), Fiber holder stand (1 pc), Slide holder (1 pc), Semicircular Perspex block (1 pc), Screen (1 pc), Clear plastic light guide (1 pc), Clear Perspex slide (1 pc), Green reflective-absorption slide (1 pc), Scattering slide (1 pc), Polarizer slide (1 pc), Polarizer disc (1 pc), Quarter-wave plate slide (1 pc), Stripped optical patch lead (1 pc), Adapted bulkhead connector (1 pc), Spacer (1 pc), Water-drop dispenser (1 pc)			
		<b>5 Sets Advanced Electrical, Electronics and Digital Experimentier</b> Resistor, 10 ohm, 1 W (1 pc) Resistor, 47 R, ¼ W (1 pc) Current probe (1 set) Resistor, 1 K, ¼ W (1 pc) Resistor, 10 K, ¼ W (3 pcs) Resistor, 270 ohm, ¼ W (1 pc) Resistor, 5.6 K, ¼ W (1 pc) Connecting link (12 pcs) Resistor, 330 K, ¼ W (1 pc) Capacitor, 1 uF, polyester (2 pcs) Resistor, 22 K, ¼ W (1 pc) Resistor, 15 K, ¼ W (1 pc) Choke, 47 mH (1 pc) Resistor, 2.2K, ¼ W (1 pc) Laboratory and curriculum manual (1 set) Power supply carrier with voltage source symbol (2 pcs) Connecting leads (1 set) Baseboard with 4 mm pillars (1 pc) <span style="float: right;">Power</span> supply with adaptors (1 set) Storage Box with tray and cover (1 pc)			
		<b>5 Sets Three-Phase Systems Trainer</b> Three-phase motor (1 pc) Tray Lid (1 pc) Deep tray (1 pc) BNC male to dual 4 mm binding post (4 pcs) Three-phase power supply (1 pc) Bulb 12 V, 0.1 A (3 pcs) Resistor, 10 ohm, 1 W (2 pcs) Resistor, 1 k, ½ W (3 pcs) Lamp holder (3 pcs) Lead, green, 320 mm, 4 mm to 4 mm, stackable (2 pcs) Lead, red, 500 mm, 4 mm to 4 mm, stackable (5 pcs) Lead, black, 500 mm, 4 mm to 4 mm, stackable (6 pcs) Lead, yellow, 500 mm, 4 mm to 4 mm, stackable (1 pc) Lead, blue, 500 mm, 4 mm to 4 mm, stackable (1 pc) Capacitor, 33 uF, non-electrolytic (1 pc) Resistor, 2.2 k, ¼ W (1 pc) 25 MHz PC-based oscilloscope and generator pack (1 set)			

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Conforme:

1/30/23

Very truly yours,

DR. GRACE N. ROSETE  
 Vice President for Administration  
 Authorized Official

**INNOVATIVE CONCEPT MARKETING**  
 (Signature over printed name & date)

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COMMISSION ON AUDIT - TSU  
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 JAN 31, 2023

Funds Available:

JASPER A. YANDER, CPA  
 Budget Officer

ALOBS No.: 16-101101-2023-01-0001  
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		<b>5 Sets Transformer Construction and Operation Experimenter</b> Deep tray (2 pcs) Tray Lid (2 pcs) Crash Foam (6 pcs) Coils and cores activity kit (1 set) Daughter tray foam cutout (1 pc) Daughter tray, 62mm daughter tray (1pc) 7 x 5 metric baseboard with 4 mm pillars (1 pc) Connecting Link (1 pc) AC power supply, 12 V AC, 1.5 A (1 pc) AC voltage source carrier (1 pc) Power supply (1 pc) Power supply carrier with battery symbol (1 pc) Resistor, 100 ohm, 3 W, (1 pc) Resistor, 10 ohm, 3 W (2 pcs) MES Lamp holder (1 pc) MES power LED (1 pc) MES bulb, 6 V, 0.06 A (1 pc) Switch, on/off, metal strip (1 pc) Lenz's law kit (1 set) Compass (1 pc) 400 Turn coil carrier (1 pc) Ferrite rod, 10 mm x 100 mm (1 pc) Alnico rod magnet (1 pc) Shrouded lead, 4 mm, black, stackable (1 pc) Shrouded lead, 4 mm, red, stackable (1 pc) Lead, black, 500 mm, 4 mm to 4 mm, stackable (1 pc) Lead, red, 500 mm, 4 mm to 4 mm, stackable (1 pc)			
		<b>Advanced Electronics Principles</b> Power supply (2 pcs) Storage Box with tray and cover (2 pcs) Resistor, 100 ohm, 1 W (1 pc) Capacitor, 1000 uF, 30 V, electrolytic (1pc) Triac (1 pc) Transistor, JGFET (1 pc) Resistor, 1 k, ½ W (3 pcs) Resistor, 10 k, ¼ W (3 pcs) Resistor, 270 ohm, ½ W (1 pc) Resistor, 180 ohm, ½ W (1pc) Potentiometer, 250 ohm (1pc) Potentiometer, 10 k (2 pcs) Resistor, 100k, ¼ W (2 pcs) Capacitor, 47 uF, 25 V, electrolytic (1 pc) Thermistor, 4.7 k, NTC, ANSI (1 pc) Lead, red 500 mm, 4 mm to 4 mm, stackable Lead, black, yellow, and blue, 500 mm, 4 mm to 4 mm, stackable Capacitor, 100 uF, 25 V, electrolytic (1 pc) Capacitor, 1 uF, polyester (1 pc) Capacitor, 4.7 uF, 25 V, electrolytic (1 pc) Capacitor, variable, 15-140 pF Capacitor, 0.47 uF, polyester (1 pc) Resistor, 2.2k, ¼ W (1 pc) 7 x 5 metric baseboard with 4 mm pillars (1 pc) AC voltage source carrier (1 pc) Voltmeter, 0 V to 15 V (1 pc) Resistor, 200 k, ¼ W (1 pc) Capacitor, 1 nF, polyester (1 pc) Phototransistor Carrier (1 pc) Photodiode (1 pc) Switch, changeover, toggle (1 pc) Resistor, 500 k, ¼ W (1 pc)			

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Funds Available:

**JASPER A. AUDEY, CPA**  
Budget Officer

Very truly yours,

**DR. GRACE N. ROSETE**  
Vice President for Administration  
Authorized Official

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ALOBS No.: **06-101101-2023-01-0001**  
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		<p><b>20 pcs Multimeter</b> DC Voltage Measuring Range: 200 mV to 600 V Input Impedance: 10 MΩ Max Input Voltage: 600 V DC or 600 V AC RMS AC Voltage Measuring Range: 2 V to 600 V Max Input Voltage: 600 V DC or 600 V AC RMS Frequency Response: 40 Hz - 400 Hz sine wave RMS Resistance: 200 Ω to 200 MΩ Overload protection: 250 V DC or 250 V AC RMS Open Circuit Voltage: below 700 mV</p> <p><b>5 Sets USB-powered PC-Based Oscilloscope Data Acquisition Device, with software</b> analog channel and built-in function/arbitrary waveform generator, USB connectors and probes, installation CD Technical specifications: Bandwidth: 60 MHz Sampling: 1 GS/s Memory: 4 MS Waveform: Function Generator Input channel: 4 Input ranges: ±50 mV to ±20 V in 9 ranges Overvoltage protection: ±100 V (DC + AC peak) Function Generator: Output waveforms: Sine, square, triangle, DC voltage Output frequency range: DC to 1 MHz Output frequency accuracy: &gt; 1 MHz Spectrum Analyzer: Frequency Range: DC to 60 MHz Display modes: Magnitude, average, peak hold</p> <p><b>10pcs DC Power Supply</b> One 0-30 V variable output One 5 V 500 mA output and one 12 V 500 mA output Separate digital voltmeter and ammeter Current limiting LED indicator Adjustable current control Overload and short circuit protection Galvanized steel case Polycarbonate front panel Screw on connector for variable output, snap on connectors for fixed outputs Compliant to CE, EN61558, EN55014</p> <p><b>10pcs Function Generator, Synthesized</b> DDS Technique and FPGA Chip Design Frequency Range: 0.1 Hz to 3 MHz High Frequency Accuracy: ±20 ppm High Frequency Stability: ±20 ppm Maximum Frequency Resolution: 100 mHz Low Distortion Sine Wave: -55 dBc, 0.1 Hz to 200 kHz •Warranty: 1 year against factory defects, 2 years on workmanship and after-sales service •With laboratory experiment manuals •With Training</p> <p style="text-align: center;">***** Purpose: <u>Advanced Manufacturing Equipment for IE and ECE for CET</u></p>			

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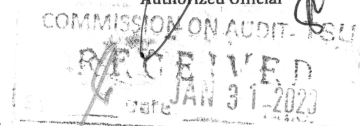
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