



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:
 Please furnish this office the following articles subject to the terms and conditions contained here

Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD
Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
1	DIGITAL ELECTRONICS FUNDAMENTALS MODULE - KL-300 Features: * at least 13 modules cover a large variety of essential topics for digital logic * Suitable for combination logic, sequential logic and microprocessor circuits design and experiments * Experiments are expandable and flexible with universal breadboard * Capable of processing TTL, CMOS, NMOS, PMOS and ECL circuit * All supply units are equipped with overload protection for safety purpose * All modules equipped with 8-bit DIP switch for fault simulations. Specification: 1. Dual DC Power Supply (1) Voltage Range (2) With output overload protection 2. Adjustable DC Power Supply (1) Voltage range: +1.5V~+15V (2) Maximum current output: 0.5A (3) With output overload protection 3. Standard Frequency (1) Frequency: 1MHz, 60Hz, 1Hz (2) Accuracy: +0.01% (1MHz) (3) Fan out: 10 TTL load 4. Clock Signal Generator (1) Frequency: 1Hz-1MHz (6 ranges)	set	1	1,547,900.00	1,547,900.00

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villarta
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 12-22-23

Funds Available:

Ruby G. Manangu
RUBY G. MANANGU
 City Accountant

OBR : *600-2023-11 (old)*

Approved Budget for the Contract : 14,095,125.00

JRS



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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	a. 1Hz ~ 10Hz b. 10Hz ~ 100Hz c. 100Hz ~ 1KHz d. 1KHz~10KHz e. 10KHz~100KHz f. 100KHz~1MHz (2) Fan out: 10 TTL load 5. Data Switch (1) 8-bit DIP switchx2, 16-bit TTL level output (2) Toggle switchx4, each with DEBOUNCE circuit (3) Fan out: 10 TTL load 6. Pulser Switch (1) 2 sets of independent control output (2) Each set with Q, /Q output, pulse width > 5ms (3) Each set of switch with DEBOUNCE circuit (4) Fan out: 10 TTL load 7. Line Signal Generator (1) Frequency: 50 /60Hz (2) Output voltage: 6Vrms (3) With overload protection 8. Thumbwheel Switch (1) 2-digit, BCD code output and common point Input 9. Logic Indicator (1) 16 sets of Independent LED Indicates high and low logic state (2) Input Impedance: 100KΩ				

MA. JOSEFINA G. BELMONTE
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Manon Villalva
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Funds Available:

Ruby G. Manangu
RUBY G. MANANGU
 City Accountant

OBR : *11-12920*

Approved Budget for the Contract : 14,095,125.00



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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	10. Logic Indicator (1) 4 sets of independent 7-segment LED display (2) With BCD, 7-segment decoder/driver and DP input. (3) Input with 8-4-2-1 code 11. Logic Probe (1) TTL and CMOS level (2) 5mm LED displays (3) "Lo" and "Hi" LED display low and high logic state respectively 12. Speaker (1) One 8Ω, 0.25W speaker with driver circuit 13. Breadboard Modules (1) 1,680 tie-point breadboard on top panel can be easily put into and taken off Experiment Modules Specification: 1. All modules are equipped with an 8-bit DIP switch for fault simulation. Users learn how to solve various problems by setting the DIP switch to different positions 2. Solutions for all fault test are listed in the experiment manual for user's reference. 3. 2mm plugs and sockets are used throughout the main unit and all modules. 4. Comprehensive experiment manual and instructor's manual 5. Module dimension: at least 255mm x 165mm x 30mm 6. Connection plugs are used on the modules to prevent accidental damages. 7. Individual keeping case for each module				

MA. JOSEFINA G. BELMONTE
 City Mayor

Mary Vilchik
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Ruby G. Manangu
RUBY G. MANANGU
 City Accountant

OBR : *PRO 2023 11 12/20*

Approved Budget for the Contract : 14,095,125.00

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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
2	AM/FM/ASK/FSK TRANSMITTER AND RECEIVER SYSTEM - KL-900C Features: <ul style="list-style-type: none"> • AM transmitter and Receiver modules • FM transmitter and Receiver modules • ASK/AM Transmitter and Receiver modules • FSK/FM Transmitter and Receiver modules • Comprehensive and self-contained system carrying out AM/ASK and FM/FSK transmission • The Modules equipped with 8-bit DIP switch for fault-finding experiment • Provided with comprehensive experimental manual. • An Actual mini broadcasting Station Specification: 1) AM/DSB Transmitter a. With perfect AM Transmitter for producing 1MHz b. Equipped with 8-bit DIP switch for circuits fault simulations 2) AM Transistorize Radio a. AM Receiver frequency range: 535KHz - 1605KHz b. Intermediate frequency: 455KHz c. Equipped with 8-bit DIP switch for circuits fault simulations 3) FM Transmitter a. With perfect FM Transmitter for producing 10.7MHz intermediate frequency b. Equipped with 8-bit DIP switch for circuits fault simulations c. Digital probe: 1Hz~89999999Hz 4) FM Stereo Radio	set	1	2,121,700.00	2,121,700.00

MA. JOSEFINA G. BELMONTE
 City Mayor

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Funds Available:

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OBR : No. 2023-11-12/2023

Approved Budget for the Contract : 14,095,125.00

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	a. FM Receiver frequency range: 88MHz-108MHz b. Frequency shown by 7 segment LED display c. Equipped with 8-bit DIP switch for circuits fault simulations 5) ASK/AM Transmitter a. Amplitude-shift keying (ASK) transmitter 1) Carrier frequency: 1.0MHz and 1.6MHz b. Data transmission format: 1) Start bit 2) 64-bit encoded data: 8-bit data encoded by 8-bit spread spectrum set 3) Stop bit c. Data transmission: 1) Direct modulation 2) Manchester encoding d. Data rate: 1) 100/62.5Hz 2) 160/100Hz 3) 1.6K/1KHz e. AM audio modulation signal: 1) Audio input: mono microphone input 6) ASK/AM Receiver a. AM receiver frequency range: 535KHz ~ 1605KHz b. Intermediate frequency: 455KHz c. Data receive mode: 1) Direct demodulation 2) Manchester decoding d. Data rate: 1) 100/62.5Hz 2) 160/100Hz				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marcus V. Lopez
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Funds Available:

Ruby G. Manangu
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 City Accountant

OBR : NO 2023-11 12/20

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	3) 1.6K/1KH2 e. AM audio demodulation signal: 1) Audio output: 0.2W 8Ω speak (7) FSK/FM Transmitter a. Frequency-shift keying (FSK) transmitter, which is able to produce 10.7 MHz intermediate frequency b. Data transmission format: 1) Start bit 2) 64-bit encoded data: 8-bit data encoded by 8-bit spread spectrum setting 3) Stop bit c. Data transmission: 1) Direct modulation 2) Manchester encoding d. Data rate: 1) 100/62.5Hz 2) 160/100Hz e. FM audio modulation signal: 1) Audio input: Mono microphone input f. Digital probe: 1Hz~89999999Hz 8) FSK/AM Receiver a. FM receiver frequency: 10.7MHz b. Data receive mode: 1) Direct demodulation 2) Manchester decoding c. Data rate: 1) 100/62.5Hz 2) 160/100Hz d. FM Audio demodulation signal:				

MA. JOSEFINA G. BELMONTE
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Martin Villanueva
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 12-22-2023

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Ruby G. Manangu
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 City Accountant

OBR : *W. Anan V. Anan*

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	1) Audio output: 0.2W 8Ω speaker LIST OF EXPERIMENTS: AM Experiments 1. Sine wave/Voice Modulator 2. Modulator Measurement 3. DSBSC/Sine wave Pattern 4. Modulator percentage 5. Trapezoid Pattern 6. Voice/Antenna Adjust 7. First IF Amplifier 8. Secson IF Amplifier 9. Frequency Transmitter/Receiver and Modulator/Demodulator 10. Music Transmitter and Receiver FM Experiments 1. Voltage Measurements of Varactor Diode 2. Crystal Oscillator Measurements 3. Frequency Multiplier Adjustments (For Second Harmonic) 4. RF Amplifier Tuning Circuit Adjustments (For Second Harmonic) 5. Frequency Multiplier Adjustments (For Third Harmonic) 6. RF Amplifier Tuning Circuit Adjustments (For Third Harmonic) 7. Audio Amplifier Measurements 8. Reference Oscillator Measurements 9. FM IF Amplifier 10. Counter 11. Music Transmitter and Receiver ASK/AM Experiments 1. RF Amplifier Adjustment (underlined data are reference values)				

MA. JOSEFINA G. BELMONTE
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Marian Villanar
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 12-22-2023

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OBR : NO. 2020-11 RMAN

Approved Budget for the Contract : 14,095,125.00

9/12/23



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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	2. Digital data coding (CDMA and Manchester encoding) 3. Calibration of Transmitter and Receiver 4. Transmitter and Receiver Communication Experiment 5. Analog transmission of digital signals 6. Analog signal transmitted by analog transmission 7. Music signal transmission FSK/FM Experiments 1. Voltage Measurement of Varactor Diode 2. Crystal Oscillator Frequency Measurement 3. Frequency Multiplier Adjustment (Doublers) 4. Frequency Multiplier Adjustment (Tripler) 5. RF Amplifier Tuned Circuit Adjustment 6. Digital Data Transmission (Direct Sequence and Manchester Encoding) 7. Audio Amplifier Adjustment 8. Calibration of RF Amplifier 9. Receiver Frequency Detector Adjustment 10. Decoding Sequence Adjustment 11. Digital Data Transmission and Receiving (Direct Sequence and Manchester Encoding) 12. Digital Data Transmission and Receiving Example 13. Analog transmission of digital signals 14. Analog signal transmitted by analog transmission 15. Music signal transmission ACCESSORIES 1. CI -18001 Power Supply x 2 (1) Output: +5V, 0.5A; +12V, 0.5A (2) Input: AC 110/220V 2. Connection leads and plugs x 1 set				

MA. JOSEFINA G. BELMONTE
 City Mayor

Maria Villanueva
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 12-22-2023

Funds Available:

RUBY G. MANANGU
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OBR : *100. 2020. 11-12-2020*

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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
3	3. Telescope antenna x 3 pieces 4. Mini-microphone x 2 pieces 5. Experiment manual 6. Digital logic probe x 1 set 7. Storage Cabinet 8. Rack Frame 9. Digital Storage Oscilloscope with FFT ANALOG AND DIGITAL COMMUNICATION TRAINER (BASIC COMMUNICATION SYSTEM) - KL-900A Features: * It offers the beginner complete courses of basic analog and digital communication. * Familiarization with the operative aspects of the work in telecommunication laboratory * The building block and components symbols of the circuits are printed on the surface of each modules List of Modules 1. Analog Communication Modules (1) Oscillator/Second Order LPF & HPF (2) AM Modulator/Demodulator (3) DSB-SC and SSB Modulator/Demodulator (4) FM Modulator/Demodulator (5) PLL Frequency Synthesizer (6) TDM and PAM-TDM Multiplexer/Demultiplexer (7) FDM Multiplexer/Demultiplexer (8) Signal Converter/Recovery/Regeneration 2. Digital Communication Modules	set	1	2,423,400.00	2,423,400.00

MA. JOSEFINA G. BELMONTE
 City Mayor

Marzon Vilbank
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *per. 2023-11 12/20*

Approved Budget for the Contract : 14,095,125.00

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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	(1) A/D, D/A Converter Applications (2) PWM Modulator/Demodulator (3) FSK Modulator/Demodulator (4) CVSD Modulator/Demodulator, Manchester Code Encode/Decode (5) ASK Modulator/Demodulator (6) PSK/QPSK Modulator (7) PSK/QPSK Demodulator 3. Power Supply and Signal Generator Unit (1) Main Unit List of Experiments Analog Communication 1. RF oscillator experiment 2. Second order LPF and HPF experiment 3. AM modulator experiment 4. AM demodulator experiment 5. DSB-SC and SSB modulator experiment 6. DSB-SC and SSB demodulator experiment 7. FM modulator experiment 8. FM demodulator experiment 9. Frequency synthesizer 10. TDM multiplexer experiments 11. TDM demultiplexer experiments 12. FDM multiplexer experiments 13. FDM demultiplexer experiments 14. Frequency converter experiment 15. Carrier frequency recovery experiment 16. Manchester clock regeneration experiment				

MA. JOSEFINA G. BELMONTE
 City Mayor

Handwritten Signature
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 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *Handwritten*

Approved Budget for the Contract : 14,095,125.00

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4	Digital Communication 1. Analog to digital experiment 2. Digital to analog experiment 3. PWM modulator experiment 4. PWM demodulator experiment 5. FSK modulator experiment 6. FSK demodulator experiment 7. CVSD modulators and demodulators 8. Manchester code encode/decode 9. ASK modulator/demodulator 10. PSK/QPSK modulator/demodulator Accessories: 1. Connector Leads 2. Experiment Manual 3. Teacher's Guide 4. Storage Cabinet x 2 5. Rack Frame 6. Digital Storage Oscilloscope 7. Hand-held Digital Multimeter ELECTRIC CIRCUIT LAB FUNDAMENTALS - KL-100 Features: 1. Ideal for electric circuit experiments and design exercises and integrated trainer with complete curriculum 2. Complete with power supplies and test systems for easy and efficient experimentation 3. With Universal breadboard (1,680 tie-points) for circuit design and prototyping 4. All modules equipped with an 8-bit DIP switch for circuits fault simulations or fault insertion	set	1	1,298,300.00	1,298,300.00

MA. JOSEFINA G. BELMONTE
 City Mayor

[Signature]
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 12-22-2023

Funds Available:

RUBY G. MANANGU
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OBR: *[Signature]*

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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	Technical Specification: • Main Unit 1. DC Power Supply 1) Fixed DC power supply a. Voltage range : +5DCV to -5DCV , +12DCV to - 12DCV b. With output overload protection 2) Dual DC power supply a. +3V to +18DCV, continuously adjustable b. With output overload protection 2. AC Power Supply 1. 9ACV - 0ACV - 9ACV 2. With output overload protection 3. Function Generator Sine, square and triangle 10 Hertz to 100 Kilohertz, 4 settings, continuously adjustable +5 percent of scale value 50 Ohms >18V peak to peak (open loop) >9V peak to peak (with 50Ω load) 4. 3 1/2-Digit Digital Voltmeter /Ammeter 2DCV to 200DCV +0.3% of reading + 1 digit 200μA, to 2000mA +0.5% of reading + 1 digit 5. Analog Meters 0 to 100mA up to 1A 0 to 15V 0 to 100mA up to 1A				

MA. JOSEFINA G. BELMONTE
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[Signature]
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RUBY G. MANANGU
 City Accountant

OBR : *m. MAN-11 (2020)*

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	0 to 20V 6. Speaker 1) 8Ω, 0.25W speaker with driver amplifier circuit 7. Variable Resistors 1) 1KΩ, 0.25W variable resistor with 3 terminals (A,B,C) 2) 10KΩ, 0.25W variable resistor with 3 terminals (A,B,C) 3) 100KΩ, 0.25 W variable resistor with 3 terminals (A,B,C) 4) 1MΩ, 0.25W variable resistor with 3 terminals (A,B,C) 8. Solderless Breadboard 1) 1,680 tie-points breadboard on top panel can be easily put into and taken off The Equipment must have the following Experiment Modules: • Basic Electricity Experiments and Magnetism Element Introduction Module • Magnetic Field, Ampere's Rule, Fleming's Rule Module • Electromagnetic Induction Module • Electronic Circuit Fundamental Experiments Module • Basic Electronic Circuit Experiments (1 and 2) Module • Special Electronic Components Experiments Module • Oscillator Experiments and Applications Module The package equipment must have the following list of Experiment 1. Experiments for Basic Electricity a. DC voltage measurement, Using an ohmmeter, Resistor characteristics, DC current measurement b. AC voltage and AC Current measurement c. AC RC, RL, and RLC circuit d. Power in AC circuit				

MA. JOSEFINA G. BELMONTE
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Marvin Vitoria
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 12-22-2023

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RUBY G. MANANGU
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OBR : *W. 2023.11.12.2020*

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	e. Transformer characteristics f. Series-resonant and Parallel-resonant circuit g. LC filter 2. Experiments for Magnetism a. Magnetic devices and Magnetic field b. Drawing magnetic curves and Magnetic field strength c. Lenz's and Faraday's laws d. Ampere's rule, Fleming's rule and Self-Induction e. Mutual Induction and Magnetic flux detection 3. Experiments for Basic Electronic Circuits a. Diode characteristics, Rectifier circuit, Filter circuit, b. Zener diode, LED, Transistor characteristics c. Multimeter functions d. FET, SCR, UJT characteristics 4. Experiments for Simple Electronic Circuits a. Simple, Complementary, Push-pull and Multistage cascading amplifier b. Voltage regulator c. Wheatstone bridge d. Dimmer circuit e. Relay characteristics f. Touch-controlled switch 5. Experiments for Industrial Control Applications a. CDS and Thermistor characteristics b. Light-controlled, Temperature-controlled and Sound controlled circuit				

MA. JOSEFINA G. BELMONTE
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MA. JOSEFINA G. BELMONTE
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RUBY G. MANANGU
 City Accountant

OBR : **MO-RAM-11-12020**

Approved Budget for the Contract : **14,095,125.00**

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5	<p>6. Experiments for Oscillator Characteristics and Applications</p> <p>a. Blocking oscillator</p> <p>b. Electronic birdcall, LC resonant and LED flasher circuit</p> <p>c. Astable multivibrator</p> <p>The Equipment must package with the following standard accessories:</p> <ul style="list-style-type: none"> • Experiment manual and instructor's manual • Connection leads and plugs: 1 set • Inductors: 0.1H, 0.5H each 1 piece • Magnet: 1 piece • Key (Allen Wrench): 1 piece • Handheld Digital Multi Meter • Digital Oscilloscope <p>ELECTRONICS FUNDAMENTALS MODULE - KL-200</p> <p>Features:</p> <ol style="list-style-type: none"> 1. All modules must be equipped with an 8-bit DIP switch for fault insertion/ simulation 2. Individual keeping case for easy carrying and Storage. 3. With universal breadboard for designing own circuits. 4. Uses 2mm connecting plug for the socket <p>Technical Specification:</p> <ul style="list-style-type: none"> • Main Unit 1. DC Power Supply 1) Fixed DC power supply a. Voltage range: +5DCV to - 5DCV, +12DCV to - 12DCV b. With output overload protection 	set	1	1,370,700.00	1,370,700.00

MA. JOSEFINA G. BELMONTE
 City Mayor

H. Hittawa
Mary M. Vilaba
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *MO-2023-11-12-20*

Approved Budget for the Contract : 14,095,125.00

918-1



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : :23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : :229-283-188-000
	Contact Number : :09158093937

Sir/Madam:
 Please furnish this office the following articles subject to the terms and conditions contained here

Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD
Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	2) Dual DC power supply a. +3V to +18 DCV, continuously adjustable b. With output overload protection 2. AC Power Supply 1. 9ACV - 0ACV - 9ACV 2. With output overload protection 3. Function Generator Sine, square and triangle 10 Hertz to 100 Kilohertz, 4 settings, continuously adjustable +5 percent of scale value 50 Ohms >18V peak to peak (open loop) ≥9Vpeak to peak (with 50Ω load) 4. 3 1/2-Digit Digital Voltmeter/Ammeter 2DCV to 200DCV +0.3% of reading + 1 digit 200μA, to 2000mA +0.5% of reading + 1 digit 5. Analog Meters 0 to 100mA up to 1A 0 to 15V 0 to 100mA up to 1A 0 to 20V 6. Speaker 1) 8Ω, 0.25W speaker with driver amplifier circuit 7. Variable Resistors				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villanueva
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 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *no. 2023-11-12m20*

Approved Budget for the Contract : 14,095,125.00

918



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:

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Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD

Delivery Schedule One Hundred Twenty (120) Calendar days

Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	1) 1KΩ, 0.25W variable resistor with 3 terminals (A,B,C) 2) 10KΩ, 0.25W variable resistor with 3 terminals (A,B,C) 3) 100KΩ, 0.25W variable resistor with 3 terminals (A,B,C) 4) 1MΩ, 0.25W variable resistor with 3 terminals (A,B,C) 8. Solderless Breadboard 1) 1,680 tie-points breadboard on top panel can be easily put into and taken off The equipment modules shall have the following specification: 1. Each module is secured in a solid-body plastic housing and each module shall equipped with DIP switch (8-bit) for fault insertion/simulations. Students can practice trouble shooting by setting the DIP switch to different positions. 2. Detailed solutions for the fault simulation are included in the instructor's manual The equipment shall be able to perform the following experiments: 1. Characteristics of Diodes 2. Clipping and Clamping Circuits with Diodes 3. Rectifier Circuits 4. Differential and Integrator Circuits 5. Transistors 6. Transistor Amplification Circuits 7. Field Effect Transistors (FET) 8. FET Amplification Circuits 9. Multi - Stage Amplification Circuits 10. Transistor Negative Feedback Circuits				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Vilarta
Marvin Vilarta 12-22-2023
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Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *NA-2023-11-13-2023*

Approved Budget for the Contract : 14,095,125.00

PR



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:
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Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD
Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	11. Transistor Positive Feedback Circuits 12. Regulated Voltage /Constant Current Circuits 13. Modulation and Demodulation 14. Op Amp 15. Basic Characteristics of OP Amplifier 16. Basic Characteristics of OP Amplifier (1 and 2) -Negative Feedback 17. Basic Characteristics of OP Amplifier - Positive Feedback The set shall come with the following accessories: 1. Experiment manual and instructor's manual 2. Connection leads and plugs (2mm): 1 set 3. Allen wrench Key: 1 piece 4. Handheld Digital Multi Meter 5. Digital Oscilloscope The software shall have the following capabilities: 1. Schematic Editor 2. Schematic Symbol Editor 3. Footprint Editor 4. Netlist Editor 5. Live 3D Breadboard Tool 6. Advanced PCB Designer 1) Automatic and Manual Design Tools 2) Creating flex PCB's 3) Animated 3D view 7. Electrical Rules Check (ERC) 8. Interpreter 9. Library Manager 10. Parameter Extractor 11. Text and Equation Editor				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villarta
Marvin Villarta
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12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *11. 2023-11-13-2023*

Approved Budget for the Contract : 14,095,125.00

RP 8-11



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:
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Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD
Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	12. DC analysis 13. Transient Analysis 14. Fourier analysis 15. Digital Simulation 16. HDL Simulation (VHDL, Verilog, Verilog-A, Verilog-AMS) 17. Microcontrollers (MCU) Simulation 1) MCU Simulation and Debugging (PIC, AVR, 8051,8085, HCS, ARM) 2) Linux and Android Simulation (ARM) 3) Mixed Spice Simulation (Berkeley and XSpice) 18. Flowchart Editor and Debugger 19. AC analysis 20. Network analysis 21. Noise analysis 22. Symbolic analysis 23. Monte-Carlo and Worst-case analysis 24. Design Tool 25. Optimization 26. Post-processor 27. Presentation 28. Interactive mode 29. Virtual Instruments 1) Digital Multimeter 2) Function Generator 3) Storage Oscilloscope 4) Signal and Network Analyzer 5) Digital Signal Generator 6) Logic Analyzer 30. Real-time Test and Measurements 31. Mechatronics Extension 1) Sensing and Controlling 2) Robotics				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villalobos
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : 100.000 - 1-12-2020

Approved Budget for the Contract : 14,095,125.00

9/8



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

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Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	3) Automotive Electronics 32. Faster MCU simulation, real time simulation of delays 33. Verilog-AMS: analogue events in digital context 34. New format at Fourier analysis: $D * \cos(kwt + fi)$ 35. The software accepts both M and MEG as mega (1e6), but mega is always displayed as MEG (Spice) 36. Macro wizard: Configurable pin order & name at auto generated shapes 37. Zoom or Scroll with mouse wheel, as set at View Options 38. New features in the HDL editor 39. Added reference voltage in the Fourier spectrum dialog 40. Added MicroBasic 1st file handling support in the hex/1st debugger 41. Multilanguage capability, instant language change for licensed languages 42. Open project files with preview of schematics and mechatronics 43. EDIF import 44. Global Spice variables 45. KLU - a faster linear solver and better convergence on large-size or special circuits 46. Enhanced and accelerated VHDL and Verilog simulation 10x times faster than in v9 47. Xilinx simprim simulation in digital and in mixed mode 48. Verilog A 49. Verilog AMS 50. MCU C compiling on 8051, AVR, PIC16, PIC18, PIC32, ARM 51. Spice compatible AD-DA interface 52. Oscilloscope works together with the interactive mode 53. Frequency and waveform parameters are shown with cursors 54. Hotkeys to AC and Transient Analysis 55. Cursor Max and Min functions added to the Process menu				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villegas
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *100-2207-11-100000*

Approved Budget for the Contract : 14,095,125.00

JRS



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:
 Please furnish this office the following articles subject to the terms and conditions contained here

Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD
Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
6	FIBER OPTIC COMMUNICATION TRAINER - KL-900D Features: * With four different data transmission ways (self-module transmission, module-to-module transmission, PC-to-module transmission, and module-to-PC to-module transmission) * The experiment will show you how easy it is to make productive use of fiber optic materials. * The equipment that you assemble will transmit voice from one point to another, using light traveling through an optical fiber. Specifications: Main Unit 1. Power: AC-DC Adapter a. AC input: 100V ~ 240V b. DC output: 15V, 500mA 2. Microphone Circuit a. Frequency range: 20Hz ~ 12KHz b. With gain 20 amplified circuit 3. Push-button Switch a. N.O. Type b. With LED indication 4. Function generator a. Output sine wave with adjustable output amplitude b. Output square wave, with CMOS level c. Frequency range: 6Hz ~ 2KHz 5. Output Speaker	set	1	1,556,700.00	1,556,700.00

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Silante
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : 100-2023-12-10920

Approved Budget for the Contract : 14,095,125.00

GRS



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

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Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	a. 8Ω, 1/4W 6. Transmitter Module a. Optical fiber light: Red LED, λ = 660nm b. Max. drive current: 50mA c. Effective coupling micro-lens spotlight d. Emitter follower 7. Receiver Module a. Optical receiving diode i. λ peak: 880nm ii. Connectable plastic optical fiber with 1,000m core iii. Effective coupling micro lens spotlight iv. Max. consumption power: 100mW b. With amplified, gain, restoring sharpness circuit 8. Data transmission elements a. Chip set: AVR8515, 8bits, 8MHz crystal b. LCD: back light 20 x 2 letter chip c. Keyboard: 4 x 4 16Key d. Character mode: single letter or string letter available e. Send mode: OFF (self-module transmission), transceiver (module-to-module), PC module PC f. With reset function g. Communication interface: RS 232C, 9600 baud rate h. Software environment: Windows base Experiment Modules 1. 2mm connection leads are used throughout the system 2. The building blocks and components symbols of the circuits are printed on the surface of each module				

MA. JOSEFINA G. BELMONTE
 City Mayor

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 12-22-2023

Funds Available:
RUBY G. MANANGU
 City Accountant

OBR : *[Handwritten]*
Approved Budget for the Contract : 14,095,125.00

[Handwritten initials]



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

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Delivery Schedule One Hundred Twenty (120) Calendar days
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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
7	3. Modules are secured in plastic housings 4. Comprehensive experimental manual 5. Use bridge plugs on circuit loop to reduce the possibility of errors List of Experiments 1. Characteristic of fiber optics experiment 2. Applications of fiber optics experiment 3. Light sources of fiber optics 4. Light and fiber optics interaction experiment 5. Fiber optic transmitters experiment 6. Receivers for fiber optic system experiment 7. Fiber optic expand and network experiment 8. Fiber optic connectors and lose-polishing experiment 9. Fiber optical data-transmission-self-transceiver experiment 10. Fiber optical data-transmission-double-transceiver experiment 11. Fiber optical data-transmission - PC module experiment 12. Fiber optical data-transmission - module PC experiment Accessories 1. 2mm test lead: 1 set 2. Plastic fiber optics: 1 set 3. Experiment manual 4. RS-232 to USB adapter 5. Connection plug pitch=10mm 6. Headphone and microphone INDUSTRIAL ELECTRONICS TRAINER -KL-500 Features: * Comprehensive study including the theoretical study and practical exercises * Use of industrial-type components, devices and circuits	set	1	3,481,300.00	3,481,300.00

MA. JOSEFINA G. BELMONTE
 City Mayor

Handwritten Signature
Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

Approved Budget for the Contract : 14,095,125.00

OBR : *Handwritten*



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:

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Delivery Schedule One Hundred Twenty (120) Calendar days

Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	<p>* The Industrial Electronic Trainer is a self-contained training equipment allowing students to learn more than 70 experiments through a power supply unit and 16 replaceable modules.</p> <p>Specification:</p> <p>1. Power Supply Unit (1) ACV output voltage: 18V-0V-18V, 0.5A (2) ACV output voltage: 12V-0V-12V, 0.5A (3) DC output voltage: +12V, 0.5A (4) DCV output voltage: +5V, 0.5A</p> <p>2. Meter/Motor Unit (1) Dual-scale ACV: 150V-300V, class 2.5 (2) Dual-scale ACA: 0-100mA-1A, class 2.5 (3) Dual-scale DCV: 0-10V-20V, class 2.5 (4) Dual-scale DCA: 0-100mA-1A, class 2.5 (5) AC110V/220V motor</p> <p>List of Experiments</p> <p>1. Power Supply Unit Experiments (1) AC voltage measurement (2) DC voltage measurement</p> <p>2. UJT Experiments UJT Characteristic and Equivalent Circuit (1) UJT introduction (2) UJT characteristic (3) UJT equivalent circuit (4) CDS trigger, RTH trigger</p>				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Villanar
 Signature Over Printed Name of Supplier / Date
 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : *Ms. 2023.11.12.20*

Approved Budget for the Contract : 14,095,125.00

9/8/23



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

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Delivery Schedule One Hundred Twenty (120) Calendar days

Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	UT Oscillator Circuit and Timer Switch (1) UJT relaxation oscillator (2) UJT timer switch 3. PUT Experiments PUT Characteristic and Equivalent Circuit (1) PUT introduction (2) PUT characteristic (3) PUT equivalent circuit (4) CDS trigger (5) RTH trigger PUT Oscillator Circuit and Timer Switch (1) PUT circuit oscillator (2) PUT timer switch 4. PUT and SCR Experiments PUT Staircase Generator and Voltage Control Ramp Circuit (1) PUT staircase generator circuit (2) PUT voltage control ramp circuit SCR Characteristic and RC Shift Control Circuit (1) SCR principle (2) SCR characteristic curve (3) SCR construction (4) SCR trigger mode (5) SCR RC phase control circuit 5. SCS Experiments SCS Characteristic Experiment (1) SCS construction and operation mode (2) Use VOM meter measuring SCS (3) SCS Schmitt circuit				

MA. JOSEFINA G. BELMONTE
 City Mayor

M. Villanueva
Marvin Villanueva 12-22-2023
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Funds Available:

OBR : *M-2023-12-2023*

RUBY G. MANANGU
 City Accountant

Approved Budget for the Contract : 14,095,125.00



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	(4) SCS simulate PUT circuit SCS Trigger Circuit Experiment (1) CDS trigger (2) RTH trigger 6. UJT and PUT Trigger SCR Experiments UT Trigger SCR Phase Control Circuit (1) Phase control basic circuit (2) Phase control analysis (3) AC phase control circuit analysis (4) UJT trigger SCR phase control circuit PUT Trigger SCR Phase Control Circuit 7. SCR Control DC Motor and DIAC, TRIAC SCR Characteristic Experiments SCR Control DC Motor Forward/Reverse Experiment (1) SCR cut-off principle (2) SCR control DC motor forward/reverse control experiment DIAC, TRIAC Characteristic Experiment (1) DIAC construction and characteristic (2) DIAC operation mode and measurement (3) TRIAC construction and characteristic (4) TRIAC trigger mode (5) TRIAC static measurement 8. Automatic Control Lamp, TRIAC Control Speed Experiments Automatic Control Lamp Experiment (1) TRIAC shift control (2) TRIAC automatic control lamp experiment TRIAC Control Motor Speed Experiment (1) Different motor Introduction				

MA. JOSEFINA G. BELMONTE
 City Mayor

[Signature]
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 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : MO - 2023 11 - 12023

Approved Budget for the Contract : 14,095,125.00

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Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
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	Contact Number : 09158093937

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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	(2) TRIAC control motor speed experiment				
	9. Temperature Ratio, Photo-Couple and Touch Control Experiments Bridge Temperature Ratio Control Experiment (1) Electronic component of thermal resistor (2) SCR bridge temperature ratio control experiment Photo-Couple and Touch Control Experiment (1) Photo-couple control circuit (2) FET construction and characteristic (3) Touch alarm circuit				
	10. Over/Under Voltage Breaker and Flasher Control Experiments Over/Under Voltage Breaker Experiment (1) OPA characteristic with reverse & non-reverse circuit (2) Voltage comparison circuit Flasher Control Experiment (1) Application of TRIAC power control (2) AC circuit control (3) Multivibrator				
	11. TRIAC Liquid Level and IC Timer Switch Experiments TRIAC Liquid Level Control Experiment (1) Digital circuit introduction (2) TRIAC liquid level control experiment IC Timer Switch Experiment (1) NE 555 IC circuit introduction (2) IC timer switch experiment				
	12. Digital Signal Driver and Zero-Voltage Switch Experiments Digital Signal Driver Control Experiment Zero-Voltage Switch Experiments (I)				

MA. JOSEFINA G. BELMONTE
 City Mayor

Marvin Viloria
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 12-22-2023

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR: *000/2023-16 (2023)*

Approved Budget for the Contract : 14,095,125.00

YFS



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
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Delivery Schedule One Hundred Twenty (120) Calendar days
Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	Ideal half-wave zero-voltage switch experiments				
	13. Zero-Voltage Switch Experiments Zero-Voltage Switch Experiments (II) (1) TRIAC zero-voltage switch experiments (2) IC mode zero-voltage switch experiments				
	14. SCR Converter Experiments (1) Parallel converter introduction (2) Series converter introduction (3) Converter trigger source (4) Converter voltage adjustment (5) Converter output-waveform improvement				
	15. SCR Rectifier Circuit Experiments (1) Single-phase half-wave rectifier (2) Single-phase full-wave rectifier (3) Single-phase bridge rectifier (4) Three-phase half-wave rectifier (5) Three-phase full-wave rectifier				
	16. JFET/MOSFET Characteristic and MOSFET Speed Control Experiments (1) JFET characteristic experiment (2) MOSFET characteristic experiment (3) MOSFET speed control experiment				
	17. IGBT Characteristic and IGBT Speed Control Experiments (1) IGBT characteristic experiment (2) IGBT speed control experiment				

MA. JOSEFINA G. BELMONTE
 City Mayor

[Signature]
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Funds Available:

RUBY G. MANANGU
 City Accountant

OBR : M 2023-11 (2020)

Approved Budget for the Contract : 14,095,125.00

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Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
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Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	18. Accessories (Including Storage Cabinet 2 pieces)				
	19. Rack Frame				
	20. Power Supply (0+30V, 3A)				
	21. Transformer (For local 3 phase power not 220V)				
	22. Digital Storage Oscilloscope				
	23. Hand-held digital multimeter				
	Terms and Conditions: 1. Attach proof of ISO certification to ensure that the quality of products and services complies with industry and international standards. 2. Bidder must submit brochure catalog indicating the brand name and model of bid items as additional requirements. 3. Supplier must conduct after sales training for the end-user after the completion of delivery for 18 Engineering faculty members and Laboratory personnel for 5 days. 4. Supplier must provide continuous technical support to equipment parts including services and repair as long as the equipment is functional. 5. Equipment must be supplied with training manuals in English. 6. Please attach Trainor's certification from the manufacturer to assure the quality of training that will be provided. After Sales Service: • Free trainer's training				

MA. JOSEFINA G. BELMONTE
 City Mayor

March Viloria
 Signature Over Printed Name of Supplier / Date **12-22-23**

Funds Available:

RUBY G. MANANGU
 City Accountant

OBR: *W. Manang 12-22-23*

Approved Budget for the Contract : 14,095,125.00

9/18/23

W



Procuring Unit : QUEZON CITY UNIVERSITY	Project Number : QCU-23-ELTE-1295B
Company Name : HYTEC POWER, INC.	Mode of Procurement : Public Bidding
Address : 2 T. Cruz St., Cruzville Subdivision, Zabarte Road, Novaliches, Quezon City	Resolution No. : 23-PB-862
Business Type : Corporation Registration #CS200401804	TIN Number : 229-283-188-000
	Contact Number : 09158093937

Sir/Madam:

Please furnish this office the following articles subject to the terms and conditions contained here

Place of Delivery : Upon end-user's instruction subject to proper coordination with CGSD

Delivery Schedule One Hundred Twenty (120) Calendar days

Payment Term : Credit

Stock No.	Item	Unit of Issue	QTY	Unit Cost	Amount
	<ul style="list-style-type: none"> • Free Semi-Annual Re-training with certificate, on request. • Free Consultation/Seminar, on request • Free Annual product inspection, on request • Free Product demonstration, on Request <p>***** Nothing Follows *****</p>				

Total Amount : 13,800,000.00

Total Amount In Words (Pesos): Thirteen Million Eight Hundred Thousand Pesos and 00/100 Only

MA. JOSEFINA G. BELMONTE
 City Mayor



Marvin Valarte
 Signature Over Printed Name of Supplier / Date **12-22-2023**

Funds Available:

Ruby G. Manangu
RUBY G. MANANGU
 City Accountant

OBR : *no. 2023-11 12/20*

Approved Budget for the Contract : 14,095,125.00