REQUEST FOR QUOTATION FOR THE PROCUREMENT OF GOODS AND SERVICES

Mandatory to fill in

COMPANY NAME:	**Quotation No. 23-02-051**
CONTACT No.	**Purchase Request No. F-2023-02-0020**
Address:	Purpose: For DOST-PCIEERD IDP Project - Establishment of Central Luzon Internet of Things Research and Innovation Laboratory for Smart Cities (IoTRILS)
TIN No.	**ABC: 135,000.00**
PhilGEPS Registration No.	**Delivery Period: 7 Calendar Days upon receipt of Purchase Order**
EMAIL ADDRESS:	

INSTRUCTIONS TO SUPPLIERS:

1. Please **quote your lowest price** on the item/s listed below **comprising the necessary taxes.**

2. It is mandatory to **indicate the brand** and/**or model** of the items being offered and to **attach a brochure** thereof whenever applicable

3. Indicate the **warranty period** in cases of equipment or whenever applicable.

4. Forthwith submit the accomplished quotation **duly signed by your representative.**

5. Suppliers are required and mandated to attach and submit the following documentary requirements:

a) *Valid Mayor's/ Business Permit;*   b) *BIR Certificate of Registration;*   c) *Authority to Print Receipt;*   d) *PhilGEPS Membership Certificate*   and   e) *Omnibus Sworn Statement*

6. All items must conform with the **internationally accepted standard** and **sub-standard items shall not be accepted.**

ITEM NO.	ITEM & SPECIFICATION	QTY/UNIT	BRAND & MODEL OFFERED	UNIT PRICE	TOTAL PRICE
1	**Microcontroller Board**	10 set			
	Specs:				
	Microcontroller: 32bit low power MCU				
	Clock Speed: 48MHz				
	CPU Flash Memory: 256KB				
	SRAM: 32KB				
	Connectivity: Wi-Fi 802.11b/g/n and Bluetooth (Dual-mode)				
	Sensors: 3D digital accelerometer and a 3D digital gyroscope				
	Communication: I2C, UART, SPI				
	Power: I/O Voltage - 3.3V, Nominal Input Voltage - 5-18V, DC Current per I/0 pin - 7mA				
	Digital Input / Output Pins: 14				
	Analog Input Pins: 8 (ADC 8/10/12 bit)				
	Analog Output Pins: 1 (DAC 10 bit)				
	Dimensions: Weight - 5gr, Width - 18mm, Length - 45mm				
	USB Connector: Micro USB				
	Features:				
	Bluetooth and Bluetooth Low Energy				
	WiFi and IoT Cloud				
2	**Microcontroller Board**	10 set			
	Specs:				
	Microcontroller: a 32-bit M4 CPU running at 64 MHz				
	Clock Speed: 64MHz				
	Memory: 256 KB SRAM, 1MB flash				
	Connectivity: Full Bluetooth 5 with high data rate and long range				
	Sensors: IMU, Microphone, Gesture, light, proximity, Barometric pressure, Temperature, humidity				
	Communication: I2C, UART, SPI				
	Power: I/O Voltage - 3.3V, Nominal Input Voltage - 5-18V, DC Current per I/0 pin - 10mA				
	Digital Input / Output Pins: 14				
	Analog Input Pins: 8 (ADC 12 bit 200 ksamples)				
	Analog Output Pins: Only through PWM (no DAC)				
	Dimensions: Weight - 5gr, Width - 18mm, Length - 45mm				
	USB Connector: Micro USB				
	Features:				
	Bluetooth and Bluetooth Low Energy				
	Embedded Artificial Intelligence				
	page 1 of 3				
	NOTE: Please attach brochure and indicate days of delivery				

Accomplished by:

_____

Supplier's Representative
(Print name and Signature)

Date Accomplished : _____

By the authority of the University President.

DR. DOLLY P. MAROMA
BAC Chairman

Canvassed by:

_____
Name and Signature

BulSU-OP-PU-03F3
Revision: 1

JAM 3-10-2023

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ITEM NO.	ITEM & SPECIFICATION	QTY/UNIT	BRAND & MODEL OFFERED	UNIT PRICE	TOTAL PRICE
3	**Microcontroller Board**	10 set			
	Specs:				
	Microcontroller: 32bit low power MCU				
	Clock Speed: 48MHz, 32.768 kHz				
	Memory: 256KB Flash, 32KB SRAM				
	Connectivity: Low Power Wide Area Networking (LPWAN) communication protocol (Carrier frequency - 433/868/915 MHz, Region - EU/US)				
	Battery: Maximum input voltage (battery) - 3.3 V, Supported battery - 2x AA or 2x AAA, Battery connector - Screw terminals				
	Communication: I2C, UART, SPI				
	Power: I/O Voltage - 3.3V, Nominal Input Voltage - 5-5.5V, DC Current per I/0 pin - 7mA				
	Digital Input / Output Pins: 8				
	Analog Input Pins: 7 (ADC 8/10/12 bit)				
	Analog Output Pins: 1 (DAC 10 bit)				
	Dimensions: Weight - 32gr, Width - 25mm, Length - 67.6mm				
	USB Connector: Micro USB				
	Features:				
	Low Power Wide Area Networking (LPWAN) communication protocol connectivity				
4	**Microcontroller Board**	10 set			
	Specs:				
	Microcontroller: 8-bit, 48 kB Flash, 48-Pin				
	Clock Speed: 6 MHz				
	Memory: 6KB SRAM, 48KB flash, 256 bytes EEPROM, 448 KB ROM, 520KB SRAM, 2MB Flash				
	Connectivity: Bluetooth and BLE, WIFI				
	Sensors: Inertial Measurement Unit				
	Communication: I2C, UART, SPI				
	Power: I/O Voltage - 5V, Nominal Input Voltage - 6-20V, DC Current per I/0 pin - 20mA				
	Digital Input / Output Pins: 14 — 5 Provide PWM Output				
	Analog Input Pins: 6				
	Dimensions: Weight - 25g, Width - 53.4mm, Length - 68.6mm				
	USB Connector: USB-B				
	Features:				
	WIFI connectivity				
	Bluetooth and Bluetooth Low Energy				
	page 2 of 3				
	NOTE: Please attach brochure and indicate days of delivery				

Accomplished by:

By the authority of the University President.

_____
Supplier's Representative
(Print name and Signature)

_____
DR. DOLLY P. MAROMA
BAC Chairman

Date Accomplished : _____

Canvassed by:

_____
Name and Signature

BulSU-OP-PU-03F3
Revision: 1
JAM 3-10-2023

Republic of the Philippines
BULACAN STATE UNIVERSITY
City of Malolos, Bulacan

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ITEM NO.	ITEM & SPECIFICATION	QTY/UNIT	BRAND & MODEL OFFERED	UNIT PRICE	TOTAL PRICE
5	**Microcontroller Board**	10 set			
	Specifications:				
	Single or Dual-Core 32-bit Microprocessor with clock frequency up to 240 MHz.				
	520 KB of SRAM, 448 KB of ROM and 16 KB of RTC SRAM.				
	Supports 802.11 b/g/n Wi-Fi connectivity with speeds up to 150 Mbps.				
	Support for both Classic Bluetooth v4.2 and BLE specifications.				
	34 Programmable GPIOs.				
	Up to 18 channels of 12-bit SAR ADC and 2 channels of 8-bit DAC				
	Serial Connectivity include 4 x SPI, 2 x I2C, 2 x I2S, 3 x UART.				
	Ethernet MAC for physical LAN Communication (requires external PHY).				
	1 Host controller for SD/SDIO/MMC and 1 Slave controller for SDIO/SPI.				
	Motor PWM and up to 16-channels of LED PWM.				
	Secure Boot and Flash Encryption.				
	Cryptographic Hardware Acceleration for AES, Hash (SHA-2), RSA, ECC and RNG				
	Features:				
	System on Chip (SoC) Microcontroller				
	WIFI + Bluetooth				
	page 3 of 3				
	BY LOT				
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_____

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_____
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BAC Chairman

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