

Normal Road, Baliwasan Zamboanga City www.wmsu.edu.ph Telephone: 062-991-1771 LOC 1003

## INVITATION TO BID

The Western Mindanao State University, through its Bids and Awards Committee (BAC), is inviting PhilGEPS registered suppliers to apply for eligibility and to submit bids for the item mentioned hereunder:

Name of Project: Procurement of Various Electronic Parts and Accesories for the RPDU

Approved Budget Cost: PHP 80,080.00 Purchase Request No.: PR 25-06-290

Closing Date: September 2, 2025 9:30 AM

- 1.) Five (5) pcs of ESP8266-Based Wi-Fi Microcontroller Module (NodeMCU Type) Specifications:
- . Based on ESP8266 SoC, 32-bit processor
- . Supports Wi-Fi 802.11 b/g/n (2.4 GHz)
- . Operating modes: Station / SoftAP / Station+AP
- . Integrated TCP/IP stack
- . Interfaces: UART, SPI, I2C, PWM, GPIO
- . Power Input: 4.5V-9V via VIN or 5V via Micro USB
- . Current: ~70 mA typical, max 200 mA
- . Compatible with Arduino IDE / Lua / MicroPython
- . Dimensions: approx.  $58 \times 31$  mm
- . Breadboard-friendly, USB programmable. ABC: Php 1,625.00
- 2.) Five (5) pcs of ESP8266-Based Compact Wi-Fi Microcontroller Module (D1 Mini Pro Type)

## Specifications:

- . Based on ESP8266 Wi-Fi SoC
- . Built-in ceramic antenna and external antenna connector (IPEX)
- . Flash memory: 16MB
- . Digital I/O pins: 11, Analog input: 1 (max 3.2V)
- . Operating voltage: 3.3V
- . Clock speed: 80 / 160 MHz
- . USB programmable via Micro USB
- . Compact size: approx. 34.2 × 25.6 mm, 3 grams
- . Compatible with Arduino IDE, MicroPython, and Lua. ABC: Php 1,875.00
- 3.) Two (2) units of Wireless Router

### Specifications:

- . Type: Dual-band Wireless Router
- . Wireless Speeds:
- Up to 867 Mbps on 5 GHz (802.11ac)
- Up to 400 Mbps on 2.4 GHz (802.11n)
- . Wi-Fi Standard: IEEE 802.11 a/b/g/n/ac (AC1200 class)
- . CPU: Minimum 1.2 GHz processor
- . Ports:
- 1 × 10/100 Mbps WAN port
- *4*× *10/100 Mbps LAN ports*
- . Supports Router mode and Access Point mode
- . Power Supply: (Input) 9V DC, 0.85A. ABC: Php 5,000.00
- 4.) Two (2) pcs of JST Connector Pin set

## Specifications:

- . Type: JST Connector with pre-crimped wires
- . Connector Pitch: 1.25 mm
- . Pin Count Variants: 2-pin, 3-pin, 4-pin, 5-pin, 6-pin
- . Connector Ends: Male to Female pair
- . Wire Length: Approx. 15 cm per lead
- . Configuration: Set includes assorted pin counts





Normal Road, Baliwasan Zamboanga City www.wmsu.edu.ph Telephone: 062-991-1771 LOC 1003

. Material: Flexible insulated wire with plastic housing. ABC: Php 160.00

## 5.) Ten (10) pcs of Stranded Wires

## Specifications:

. Conductor Type: Stranded, multi-core, flexible

. Cross-Sectional Area: 1.0 mm<sup>2</sup>

. Material: 100% pure copper conductor

. Insulation: PVC (Polyvinyl Chloride), flame-retardant

. Rated Voltage: 300V

. Temperature Rating: Up to 80°C

. Wire Type: RV type (single core, multi-strand control/power wire). ABC: Php 100.00

## 6.) Ten (10) pcs of Capacitor

## Specifications:

. Capacitance: 10,000 μF (microfarads)

. Rated Voltage: 50V DC

. Capacitor Type: Aluminum Electrolytic . Mounting Type: Radial, DIP (Through-Hole)

. Tolerance: ±20%

. Maximum Operating Temperature: 105°C

. Case Type: Cylindrical with radial leads. ABC: Php 500.00

## 7.) Ten (10) pcs of Resistor

## Specifications:

. Resistance: 2,000 ohms (2k?)

. Power Rating: 1 Watt

. Tolerance: ±1%

. Maximum Voltage: 500V (AC/DC)

. Temperature Range: -55°C to +155°C

. Type: Metal Film Resistor. ABC: Php 150.00

## 8.) Six (6) pcs of Ultrasonic Distance Sensor Module

### Specifications:

. Sensing Range: 2 cm to 400 cm

. Accuracy: Up to  $\pm 1$  cm

. Operating Voltage: 5V DC

. Current Consumption: <15 mA

. Interface: Trigger and Echo pins for easy microcontroller integration

. Output Signal: Pulse width corresponding to distance

. Design: Compact module, approx.  $45 \times 20 \times 15$  mm. ABC: Php 1,200.00

## 9.) Ten (10) pcs of Capacitive Soil Moisture Sensor Module Specification:

. Sensor Type: Capacitive soil moisture sensor

. Corrosion-Resistant: Suitable for long-term soil use

. Operating Voltage: 3.3V to 5.5V DC

. Output Voltage Range: 0 to 3.0V DC (analog output)

. Interface Type: PH 2.54mm 3-pin header (VCC, GND, AOUT)

. Integrated Chip: TL555 for stable signal output

. Compatible with Arduino, ESP8266, and similar microcontrollers. ABC: Php 5,000.00

## 10.) Ten (10) pcs of Liquid pH Sensor Module with Probe

Specification:

. Module Model: PH-4502C

. Supply Voltage: 5V DC

. Current Consumption: Approx. 10 mA

. Detection Range: pH 0-14 (acidic to basic)

. Response Time: ?5 seconds

. Electrode: E201-BNC connector, detachable

. Probe Type: Laboratory-grade liquid pH probe



CONTRACTOR AND ADDRESS OF THE PARTY OF THE P

Normal Road, Baliwasan Zamboanga City www.wmsu.edu.ph Telephone: 062-991-1771 LOC 1003

. Working Temperature: 10°C to 50°C . Probe Temperature Range: 0°C to 80°C

. Working Humidity: ?95% RH, non-condensing . Dimensions: 42 × 32 × 20 mm (sensor board)

. Compatible with Arduino, ESP8266, ESP32, Raspberry Pi, and other microcontrollers.

*ABC: Php 5,000.00* 

## 11.) Ten (10) pcs of Soil Nutrient Sensor (NPK Sensor)

## Specification:

. Measurement Parameters: Nitrogen (N), Phosphorus (P), Potassium (K)

. Measurement Range: 0-1999 mg/kg

. Accuracy: ±2% F.S.

. Resolution: 1 mg/kg (or mg/L)

. Response Time: <10 seconds

. Material: ABS plastic, corrosion-resistant

. Working Temperature: 5°C to 45°C

. Working Humidity: 5% to 95% RH, non-condensing

. Power Supply: 12V to 24V DC . Communication Interface: RS485

. Baud Rate Options: 2400 / 4800 / 9600 bps

. Protection Rating: IP68 (dust-tight and waterproof)

. Installation: Soil-insertable probe, suitable for in-field measurements. ABC: Php 29,470.00

## 12.) Ten (10) pcs of Solar Panel Set

## Specification:

. Panel Type: Monocrystalline PV module

. Rated Power Output: 100W per panel, 2 panels included (total 200W)

. System Voltage: 12 Volts DC

. High Efficiency: Suitable for off-grid and battery charging applications

. Durability: Corrosion-resistant aluminum frame and tempered glass

. Applications: Ideal for RVs, boats, rooftops, farms, solar kits, and other off-grid power systems

. Compatibility: Works with most 12V battery systems, solar charge controllers, and inverters . Installation: Pre-drilled holes for quick mounting; compatible with standard brackets and

racks

. Weather Resistance: Built to withstand high winds and snow loads

. Quantity: 2 panels per set

ABC: Php 30,000.00

for the project title "DESIGN AND IMPLEMENTATION OF MONITORING THE LEVELS OF WATER, HUMIDITY, AMMONIA AND TEMPERATURE FOR POULTRY FARM IN IPI, ZAMBOANGA SIBUGAY" DOST IX.

The criteria to be used for the eligibility check of the prospective bidders, examination and evaluation of bids, post-qualification and all matters relevant to this procurement shall be in accordance with Republic Act. No. 9184 (The Government Procurement Reform Act) and its Implementing Rules and Regulations.

Pursuant to Annex "H" documentary requirements interested bidders are required to submit their valid and current Mayor's Permit, PhilGEPS Registration and other relevant documents (if necessary), upon the submission of quotation.

Award of contract shall be made to the lowest calculated and responsive bid, which complies with the necessary description as stated above and other terms and conditions stated in the price quotation form.

Any interlineations, erasures or overwriting shall be valid only if they are signed or initiated by the bidder or his/her duly authorized representative/s.



CETTER-STON AB
NETTER-STON
BOOKS 275

Normal Road, Baliwasan Zamboanga City www.wmsu.edu.ph Telephone: 062-991-1771 LOC 1003

Submission of Quotation and eligibility documents is on or before September 2, 2025 9:30 AM at the BAC Office, 2nd Floor, Admin Building, Western Mindanao State University, Normal Road, Baliwasan, Zamboanga City. Open submission may be submitted manually, email (bac@wmsu.edu.ph) or through facsimile at (062) 991-1771 loc 1003 For inquiries, you may coordinate with the BAC Secretariat at telephone no. (062) 991-1771 loc 1003

The WESTERN MINDANAO STATE UNIVERSITY reserves the right to reject any or all Bids and to accept the bid most advantageous to the government, and to award the contract by lot, if warranted.

Quotation No.: \_\_\_\_

				PR No	o.: <u>25-06-</u>	290	
hortest at <u>9:30</u>	time of c	delivery a	ur lowest price on the item/s listed below, subject to the G and submit your quotation duly signed by your representat a envelope attached herewith. Any quotation submitted be	ive not later than	/SEP 32	2025	
IOTE:				JOSELITO D BAC Chair	. MADRO		
	1 2 3 4 5 6	DELIVER WARRAN DATE OF PRICE V	RIES MUST BE TYPEWRITTEN  Y PERIOD CALENDAR DAYS UPON RECEIPT OF THE PUR  NTY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR SUPPLIES AN  F ACCEPTANCE BY WESTERN MINDANAO STATE UNIVERSITY  ALIDITY SHALL BE FOR A PERIOD OF 120 CALENDAR DAYS UPON R  EGISTRATION CERTIFICATE SHALL BE ATTACHED UPON SUBMISSION  S SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICATION	D MATERIALS. ONE (1) YEAR FOR EQUIPMENT, FROM ECEIPT OF THE PURCHASE ORDER ON OF THE QUOTATION			
Item No.	Qty	Unit	Item and Description	Approved Budget for the Contract (ABC)	Unit Cost	Total Cost	
1.	5	pcs	ESP8266-Based Wi-Fi Microcontroller Module (NodeMCU Type) Specifications: . Based on ESP8266 SoC, 32-bit processor . Supports Wi-Fi 802.11 b/g/n (2.4 GHz) . Operating modes: Station / SoftAP / Station+AP . Integrated TCP/IP stack . Interfaces: UART, SPI, I2C, PWM, GPIO . Power Input: 4.5V-9V via VIN or 5V via Micro USB . Current: ~70 mA typical, max 200 mA . Compatible with Arduino IDE / Lua / MicroPython . Dimensions: approx. 58 × 31 mm . Breadboard-friendly, USB programmable. 325.00/pcs.	P 1,625.00			
2.	5	pcs	ESP8266-Based Compact Wi-Fi Microcontroller Module (D1 Mini Pro Type)  Specifications: . Based on ESP8266 Wi-Fi SoC . Built-in ceramic antenna and external antenna connector (IPEX) . Flash memory: 16MB . Digital I/O pins: 11, Analog input: 1 (max 3.2V) . Operating voltage: 3.3V . Clock speed: 80 / 160 MHz . USB programmable via Micro USB . Compact size: approx. 34.2 × 25.6 mm, 3 grams . Compatible with Arduino IDE, MicroPython, and Lua. 375.00/pcs.	P 1,875.00			
3.	2	units	Wireless Router  Specifications: . Type: Dual-band Wireless Router . Wireless Speeds: - Up to 867 Mbps on 5 GHz (802.11ac) - Up to 400 Mbps on 2.4 GHz (802.11n) . Wi-Fi Standard: IEEE 802.11 a/b/g/n/ac (AC1200 class) . CPU: Minimum 1.2 GHz processor	P 5,000.00			
EPS R	eference N	Number		The state of the s	d & Model very Period	<u> </u>	
EPS S	olicitation	Number		War			
EPS C	losing Dat		<u> </u>			V 9100-1100-10	
	After h	aving care		GEPS Certificate No. ificate Reference No			
	REY ESPIRITUSANTO / DANNI VINCENT VILLAREAL Canvasser			Tel .No./Cellphone #			
				-	Date		

		Quotation No.:					
				PR No.: 25-06-290			
			or lowest price on the item/s listed below, subject to the G and submit your quotation duly signed by your representate envelope attached herewith. Any quotation submitted be	tive not later than			
OTE:	1 2 3 4 5	DELIVERY WARRAN DATE OF PRICE VA	RIES MUST BE TYPEWRITTEN  Y PERIOD CALENDAR DAYS UPON RECEIPT OF THE PUR  TY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR SUPPLIES AI  ACCEPTANCE BY WESTERN MINDANAO STATE UNIVERSITY  ALIDITY SHALL BE FOR A PERIOD OF 120 CALENDAR DAYS UPON IS  EGISTRATION CERTIFICATE SHALL BE ATTACHED UPON SUBMISS  SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICATION	RECEIPT OF THE PURCHASE ORDER			
			. Ports: - 1× 10/100 Mbps WAN port - 4× 10/100 Mbps LAN ports . Supports Router mode and Access Point mode . Power Supply: (Input) 9V DC, 0.85A. 2,500.00/units.				
4.	2	pcs	Specifications: Type: JST Connector with pre-crimped wires Connector Pitch: 1.25 mm Pin Count Variants: 2-pin, 3-pin, 4-pin, 5-pin, 6-pin Connector Ends: Male to Female pair Wire Length: Approx. 15 cm per lead Configuration: Set includes assorted pin counts Material: Flexible insulated wire with plastic housing. 80.00/pcs.	P 160.00			
5.	10	pcs	Stranded Wires Specifications: . Conductor Type: Stranded, multi-core, flexible . Cross-Sectional Area: 1.0 mm² . Material: 100% pure copper conductor . Insulation: PVC (Polyvinyl Chloride), flame-retardant . Rated Voltage: 300V . Temperature Rating: Up to 80°C . Wire Type: RV type (single core, multi-strand control/power wire). 10.00/pcs.	P 100.00			
6.	10	pcs	Capacitor  Specifications: . Capacitance: 10,000 µF (microfarads) . Rated Voltage: 50V DC . Capacitor Type: Aluminum Electrolytic . Mounting Type: Radial, DIP (Through-Hole) . Tolerance: ±20% . Maximum Operating Temperature: 105°C . Case Type: Cylindrical with radial leads. 50.00/pcs.	P 500.00			
7.	10	pcs	Resistor Specifications: . Resistance: 2,000 ohms (2k?)	P150.00			
EPS S	Reference Solicitation Closing Da	Number	2	Brand & Model Delivery Period Warranty Price Validity			
	After	having ca	III €	g are our price quotation for the items above indicated.  iIGEPS Certificate No.:  rtificate Reference No.:			
	REY	ESPIRITU	JSANTO / DANNI VINCENT VILLAREAL Canvasser	Printed Name/Signature  Tel .No./Cellphone #			
				Date			

					Q	uotation No.:	-
					PF	R No.: 25-06-	290
	Please	quote y	our lowest price on the item/s listed below, subject to the	ne Gene	eral Conditions	on the page, st	ationthe
nortes t <u>9:30</u>	t time of OA.M. in	delivery the retur	and submit your quotation duly signed by your represe on envelope attached herewith. Any quotation submitted	ntative d beyon	not later than _ d this date will i	SEP 32.20	
OTE:	1 2 3 4 5	DELIVE WARRA DATE C PRICE	TRIES MUST BE TYPEWRITTEN  RY PERIOD CALENDAR DAYS UPON RECEIPT OF THE  NTY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR SUPPLIE  OF ACCEPTANCE BY WESTERN MINDANAO STATE UNIVERSITY  VALIDITY SHALL BE FOR A PERIOD OF 120 CALENDAR DAYS UP- REGISTRATION CERTIFICATE SHALL BE ATTACHED UPON SUBM	S AND M	BAC CI SE ORDER. ATERIALS, ONE (1	CHASE ORDER	GOODS
	6		RS SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICA				4
			. Power Rating: 1 Watt . Tolerance: ±1% . Maximum Voltage: 500V (AC/DC) . Temperature Range: -55°C to +155°C . Type: Metal Film Resistor. 15.00/pcs.				
8.	6	pcs	Ultrasonic Distance Sensor Module  Specifications: . Sensing Range: 2 cm to 400 cm . Accuracy: Up to ±1 cm . Operating Voltage: 5V DC . Current Consumption: <15 mA . Interface: Trigger and Echo pins for easy microcontroller integration . Output Signal: Pulse width corresponding to distance . Design: Compact module, approx. 45 × 20 × 15 mm. 200.00/pcs.		P1,200.0	00	
9.	10	pcs	Capacitive Soil Moisture Sensor Module Specification: . Sensor Type: Capacitive soil moisture sensor . Corrosion-Resistant: Suitable for long-term soil use . Operating Voltage: 3.3V to 5.5V DC . Output Voltage Range: 0 to 3.0V DC (analog output) . Interface Type: PH 2.54mm 3-pin header (VCC, GND, AO: . Integrated Chip: TL555 for stable signal output . Compatible with Arduino, ESP8266, and similar microcontrollers. 500.00/pcs.	<i>υτ</i> )	P5,000.0	00	
10.	10	pcs	Liquid pH Sensor Module with Probe Specification: . Module Model: PH-4502C . Supply Voltage: 5V DC . Current Consumption: Approx. 10 mA . Detection Range: pH 0-14 (acidic to basic) . Response Time: ?5 seconds . Electrode: E201-BNC connector, detachable . Probe Type: Laboratory-grade liquid pH probe . Working Temperature: 10°C to 50°C . Probe Temperature Range: 0°C to 80°C . Working Humidity: ?95% RH, non-condensing		P5,000.0	00	
	eference N		·	3 01	5 N	rand & Model elivery Period Varranty rice Validity	
PS CI	osing Date		\$				
	After ha			hilGEPS	ur price quotation S Certificate N te Reference	lo.:	
	REY E	SPIRITUS	SANTO / DANNI VINCENT VILLAREAL Canvasser		-	rinted Name/Sig	nature
					Tel .No./Ce	llphone #	
					-	Date	

				Quotation No.:
				PR No.: 25-06-290
	Please	quote yo	our lowest price on the item/s listed below, subject to the Ger	
ortes 9:30	t time of o	delivery he retur	and submit your quotation duly signed by your representative n envelope attached herewith. Any quotation submitted beyo	nd this date will not be considered.
OTE:	S <b>z</b> e			JOSELITO D. MADROÑAL, DPA BAC Charperson for GOODS
	1 2 3 4 5 6	DELIVER WARRA DATE O PRICE V	RIES MUST BE TYPEWRITTEN  RY PERIOD CALENDAR DAYS UPON RECEIPT OF THE PURCH  NTY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR SUPPLIES AND  F ACCEPTANCE BY WESTERN MINDANAO STATE UNIVERSITY  (ALIDITY SHALL BE FOR A PERIOD OF 120 CALENDAR DAYS UPON REC  REGISTRATION CERTIFICATE SHALL BE ATTACHED UPON SUBMISSION  S SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICATIONS (	MATERIALS. ONE (1) YEAR FOR EQUIPMENT, FROM CEIPT OF THE PURCHASE ORDER OF THE QUOTATION
			. Dimensions: 42 × 32 × 20 mm (sensor board) . Compatible with Arduino, ESP8266, ESP32, Raspberry Pi, and other microcontrollers. 500.00/pcs.	
11.	10	pcs	Soil Nutrient Sensor (NPK Sensor)  Specification: . Measurement Parameters: Nitrogen (N), Phosphorus (P), Potassium (K) . Measurement Range: 0-1999 mg/kg . Accuracy: ±2% F.S Resolution: 1 mg/kg (or mg/L) . Response Time: <10 seconds . Material: ABS plastic, corrosion-resistant . Working Temperature: 5°C to 45°C . Working Humidity: 5% to 95% RH, non-condensing . Power Supply: 12V to 24V DC . Communication Interface: RS485 . Baud Rate Options: 2400 / 4800 / 9600 bps . Protection Rating: IP68 (dust-tight and waterproof)	P29,470.00
12.	10	pcs	. Installation: Soil-insertable probe, suitable for in-field measurements. 2,947.00/pcs.  Solar Panel Set Specification: . Panel Type: Monocrystalline PV module . Rated Power Output: 100W per panel, 2 panels included (total 200W) . System Voltage: 12 Volts DC . High Efficiency: Suitable for off-grid and battery charging applications . Durability: Corrosion-resistant aluminum frame and tempered glass . Applications: Ideal for RVs, boats, rooftops, farms, solar kits, and other off-grid power systems . Compatibility: Works with most 12V battery systems, solar charge controllers, and inverters . Installation: Pre-drilled holes for quick mounting; compatible with standard brackets and racks . Weather Resistance: Built to withstand high winds and snow loads . Quantity: 2 panels per set 3,000.00/pcs.	P30,000.00
PS So	eference Nolicitation Nosing Date	Number	4 0	Brand & Model : Delivery Period : Warranty : Price Validity :
ro U	After ha	aving care	Certific	our price quotation for the items above indicated.  PS Certificate No.:  cate Reference No.:  Printed Name/Signature
			Canvasser	Tel .No./Cellphone #
				Date

			Quotation No.:			
		PR No.: 25-06-290				
hortest time of delivery	our lowest price on the item/s listed below, subj and submit your quotation duly signed by your on envelope attached herewith. Any quotation s	representative not la	ater than	T T DIE		
2 DELIVE 3 WARRA DATE O 4 PRICE V 5 G-EPS I	TRIES MUST BE TYPEWRITTEN  RY PERIOD CALENDAR DAYS UPON RECEIPT INTY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR IF ACCEPTANCE BY WESTERN MINDANAO STATE UNIV VALIDITY SHALL BE FOR A PERIOD OF 120 CALENDAR REGISTRATION CERTIFICATE SHALL BE ATTACHED UP IS SHALL SUBMIT ORIGINAL BROCHURES SHOWING CE	OF THE PURCHASE OF SUPPLIES AND MATER ERSITY DAYS UPON RECEIPT OF ON SUBMISSION OF TH	RIALS. ONE (1) YOU FOR EQU OF THE PURCHASE ORDER E QUOTATION			
	for the project title "DESIGN AND IMPLEME OF MONITORING THE LEVELS OF WATER, H AMMONIA AND TEMPERATURE FOR POULT IN IPIL, ZAMBOANGA SIBUGAY" DOST IX	UMIDITY,				
	Note: For the RPDU o	f the				
		5 of	Total:			
EPS Reference Number	1		Brand & Model Delivery Period	<u> </u>		
EPS Solicitation Number :			Warranty Price Validity			
EPS Closing Date	:efully read and accepted your General Conditions, the	foregoing are our pric	ce quotation for the items ob-	ove indicated		
Aitel liaving care	runy read and accepted your General Conditions, the			o maiotrod.		
			PhilGEPS Certificate No.: Certificate Reference No.:			
	POUTED DY'S	(1)				
REY ESPIRITUS	SANTO / DANKI VINCENT VILLAREAL Canvasser		Printed Name/Sig	nature		
			Tel .No./Cellphone #			
			Date			