



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 Laboratory Equipment for the College of Engineering of the University***

Approved Budget Cost: ***PHP 226,000.00***

Purchase Request No.: ***PR-25-02-064***

Closing Date: ***May 20, 2025 at 9:30 A.M***

Delivery Period: ***Thirty (30) Calendar Days***

Bid Docs: ***Php.1,000.00***

1.) 1 Piece GRAIN MOISTURE METER

LCD Display Digital

Specifications:

Dimension: From tip of handle to end of probe: 450 mm, Width: 70 mm

Type of Grain: Measure up to 14 species (Rice Wheat, Corn, Barley, Rice, Srghum, Feed, Rapeseed Melon Seeds, Sesame, Soybean Meal, Soybean, Peanut, Cotton)

Measurement Range: 5 - 49.9%

Resolution: 0.1%

Error Value: +/- 0.5%

Applicable Temperature: -25 - 50 degree Celsius

for: Agricultural and Biosystems Engineering

2.) 1 Piece DIGITAL PORTABLE SOIL MOISTURE METER

4 in 1 multifunctional soil tester (Soil Moisture, Ph, Temperature, & Sunlight Level)

Large Screen & LCD Backlight Display

4 pcs. AAA 1.5 Volts Battery Operated

Battery Low Status Alert

Temperature Selection (degree Celsius /degree Fahrenheit)

Lower Temperature Rating: 16 degree Celsius

Mounting Type: Tabletop

Upper Temperature Rating: 122 degree Fahrenheit

for: Agricultural and Biosystems Engineering

3.) 1 Unit SLING PSYCHROMETER

Specifications:

Humidity Range: 10% - 100%

Humidity Division: 2%

Humidity Accuracy: 1%

Temperature Selection: degree Celsius

Temperature Range: -5 degree Celsius to 50 degree Celsius

Dimension: 41 x 213 x 19.5 mm (D x H x W)

for: Agricultural and Biosystems Engineering

4.) 1 Piece FLOW METER

Specifications:

Type: Digital Turbine Meter

Battery Type: 2 x AAA LRO3 batteries

Thread Size: NPT/5

Connection: Thread

Maximum working Pressure: 25 bar/40 bar

Working Temperature: -10 degree celsius ~+60 degree Celsius (14F ~ 140F)

Inner Thread: 32 mm

Dimensions: 66 mm x 105 mm (HxL)

Application: Water, Diesel, Gasoline

for: Agricultural and Biosystems Engineering



5.) 1 Piece RAIN GAUGE

MATERIAL: POLYCARBONATE UV STABILIZED TRANSPARENCY

Quick & easy to install

Rain catchment funnel lid

Easy read scale measures in 0.25 mm or 1/100ths of an inch

Large capacity outer tube for heavy rainfall collection

Rain collection capacity of inner tube 25 mm/1 inch

Total collection capacity 280 mm/11 inches

No metal parts to rust

Frost and Sun hardy

for: Agricultural and Biosystems Engineering

6.) 1 Piece VISCOMETER

Specifications:

Measurement Range: 20 - 100 mm²/s

Volume: 10 ml

Capillary Inner Diameter/Nozzle diameter: 1 mm

Ball Capacity: 4.0 ml

Material: Borosilicate Glass

Total Length: 283 mm

for: Agricultural and Biosystems Engineering

7.) 1 Piece KWH-METER

240 VOLTS, SINGLE PHASE ELECTRIC METER, 60AMP

for Electrical Engineering

8.) 1 Unit THERMOCOUPLE DATA LOGGER

4 CHANNELS DIGITAL THERMOMETER

32-bit high-speed low-power MCU

Four channels

PC real time monitor (YET-640X)

K, T and J type thermocouple supported

Resolution up to 0.01

Factory accuracy $\pm(0.3\%/t/+0.40)^\circ$

Accuracy up to ± 0.17 after point calibration

Measuring range -200-+1370

Display temperature graph

9.) 1 Piece SOLAR METER

PV Solar MPPT Meter

5-800W PV Module

Maximum Power Tester

Open Circuit Voltage Short Circuit Current I_{mp} V_{mp} Test

for Electrical Engineering

10.) 1 Piece INFRARED THERMOMETER

Description: Digital Infrared Thermometer

Quick Measurement in less than 0.5s

Power Source: Battery: (1.5V, AAA x 2)

C/F Measurement Unit Conversion

High Definition LCD Display Screen

Temperature Range: -30 degree Celsius - 380 degree Celsius

With Data Retention, NCV, Diode, On-Off, Low voltage Indication, Automatic Shutdown,

LCD Backlight. Flashlight, etc.

Zero-Point auto-Correct Hook for Accurate measurement starting from zero

for: Agricultural and Biosystems Engineering

11.) 1 Unit GASOLINE ENGINE

Maximum output: 6.5HP



Camshaft diameter: 19mm, Q TYPE
Maximum torque: 12.4Nm
Engine type: 4 stroke, OHV
Displacement: 1 96ml
Bore x Stroke: 68 x 54mm
Fuel tank(L): 3.6L
Oil capacity: 0.6L

FEATURES:

Cooling System: Air-cooled
Ignition system: T.C.I
Starting system: Recoil

With One (1) Year Warranty
for: Agricultural and Biosystems Engineering

12.) 1 Unit DIESEL ENGINE

Engine type: 4 inline Vertical type 4-stroke engine
Max.output: 20 HP (9.0kW)
Max. torque: 23.75 Nm
Shaft diameter: 25.4 mm
Displacement: 531 cc
Engine rotation speed: 3600 rpm
With stainless pipe
Combustion system: Direct injection
Bore x stroke: 95 x 75mm
Fuel tank capacity (L): 5.5 L
Lube capacity (L): 1.65 L
Starting model: Recoil start

With One (1) Year Warranty
for: Agricultural and Biosystems Engineering

13.) 1 Unit CENTRIFUGAL PUMP

. Inlet Diameter: 3 inches
. Outlet Diameter: 3 inches
. Max Lift Head: 30 m
. Max Suction Head: 8 m
. Max Flow Rate: 35 m³/h
. Fuel tank capacity: 3.6 L
. Engine Model: 168-170 (6.5HP)
. Starting System: Recoil Starter
. Voltage: 220 - 240 volts, 60 Hz frequency
. Motor type: Copper Wire Motor
. Impeller Material: Stainless Steel

With One (1) Year Warranty
for: Agricultural and Biosystems Engineering

14.) 1 Unit ELECTRIC MOTOR

.Bidirectional Motor
.Grinder/mill/grinder/blender/grass cutter/motor
.Nominal voltage: 220V
.Frequency: 60Hz
.2.2 kW Rated Power
.Rated current: 5.6A
.BPM:2800r/min
.Protection grade: IP44
*.Size: 34 * 22 * 25cm*

for: Agricultural and Biosystems Engineering



15.) 1 Unit COLOROMETER

Specifications:

- .Accuracy: ± 0.5 at 1A
- .Wavelength Range: 400 to 700 nm
- .Height (metric): 60nm
- .Photometric Repeatability: ± 0.02 A at 1A
- .Resolution: 0.02 at 1A (Absorbance) I, 2% (Transmission)
- .Spectra Bandwidth: 40nm
- . Voltage: 40V
- .Electric Requirements: 240V, 50/60 Hz
- .Transmission Range: 0 to 199%
- .Width (metric): 146nm

To include accessories:

- .Plastic and Glass Cuvette
- .Color Reference Standards

With Onsite Training

for: Agricultural and Biosystems Engineering

16.) 1 Unit MULTIMETER (DIGITAL)

Specifications:

- .Display Type: digital
 - .True RMS: Yes
 - .Large-Scale Display
 - .6000 Display Count
 - .Handheld
 - .Functions Measured: AC Creent, ACmVoltage, Capacitance, Continuity, DC Current, DC Voltage, Dioded, Resistance
 - .Abs, max. DC current Measurement: 10A dc
 - .Abs. max. AC Resistance Measurement: 60M
 - .Abs max. AC Voltage Measurement: 750V ac
 - .Abs. max. DC Voltage Measurement: 1000V dc
 - .Abs max. Capacitance Measurement: 6mF
 - .Max. Frequency: 60MHz
 - .DC Current Measurement Resolution: 0.1uA dc
 - .AC Current Measurement Resolution: 0.1 uA ac
 - .Resistance Measurement Resolution: 100m
 - .DC Voltage measurement Resolution: 0.1mv dc AC Voltage Measurement Resolution: 0.1mV ac
 - .Capacitance Measurement Resolution: 1pF
 - .Battery Life; at least 300 h
 - .Min Operating Temp.: 0 degree Celsius
 - .Max. Operating Temp.: 50 degree Celsius
 - .Measurement Accuracy: $\pm 1.9\% + 8$ digits Resistance Measurement Accuracy: $\pm 0.7\% + 2$ Digits
 - .AC Voltage Accuracy: $\pm 0.9\% + 5$ Digits
 - .Safety Category Voltage: 600V, 1000V
 - .DC Current Accuracy: $\pm 1\% + 2$ Digits
 - .AC Current Accuracy: $\pm 1.5\% + 5$ Digits
 - .DC voltage Accuracy: $\pm 0.5\% + 2$ Digits
 - .Dimension: at least 82 x 44 x 164mm
- for: Electrical Engineering

17.) 5 Pieces ANALOG/DIGITAL DC AMMETER

- .Micro controller based meters with low VA burden.
- .4 Digit seven segment display.
- .Shunt selectable with primary range 1 A to 50 kA DC programmable.
- .Shunt Secondary range 0-75 m V.



.Password protected.
.Auto scaling of parameter values.
.Two switches for easy on site programming.
.Touch proof voltage & current terminals.
.Compact size and light weight.
.ABS dust-proof rugged casing.
.Current displayed with Kilo indication
for: Electrical Engineering

18.) 2 Units HOT PLATE WITH MAGNETIC STIRRER

Specifications:

.Work Plate Dimension (W x D): at least 140 x 140 mm
.Work Plate Materials: Aluminum Cover with Ceramic Coating
.Motor Type: Brushless DC Motor
.Stirring Positions: 1
.Max. Stirring Quantity (h2): 5L
.Max magnetic Bar (length): 40mm
.Speed Range: 200-1500 rpm
.Speed Display: LCD
.Motor Input Power: 2.4W
.Motor Output Power: 1.8W
.Power: 10W
.Voltage, Frequency: 220V, 50/60Hz
.Permissible ambient temperature and humidity: 5-40 degree Celsius, 80%RH
for: Sanitary Engineering

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.

Interested bidders may obtain further information from WMSU BAC Secretariat regarding the checklist of eligibility and technical requirements.

IMPORTANT NOTICE FOR BIDDERS:

1. Bidding papers may be acquired starting May 8 until May 20, 2025 from the BAC Office or download from website (www.wmsu.edu.ph). The WESTERN MINDANAO STATE UNIVERSITY shall allow the bidder to present its proof of payment for the Bidding Documents fees before the submission of their bids, pursuant to the latest Guidelines issued by the GPPB, in the amount of One Thousand Pesos (Php.1,000.00). (Please attached the machine copy of the Official Receipt)

2. All bidders' are required to post a Bid Security, at least Two (2%) Percent of the ABC in the form of Cash, Cashier's Check or Manager's Check or may submit Bid Securing Declaration. Bids without Bid Security will not be considered.

3. The Bidder shall prepare an original of the Eligibility Documents & Technical Components and original of Financial Proposal and clearly mark each "ORIGINAL – ELIGIBILITY DOCUMENTS and TECHNICAL COMPONENTS", and "ORIGINAL – FINANCIAL PROPOSAL", respectively. Bidders shall submit one (1) set of the first and second components of its bid. State the unit price of each item and the total bid price and also state the shortest time of delivery and submit your quotation duly signed by your representative in a sealed envelope.

4. Bid Submission will be on or before May 20, 2025 at 9:30 A.M. through Manual Submission.

5. Bid opening shall be on May 20, 2025 at 9:30 A.M. at BAC Office, 2nd Floor Administration Building, WMSU, Zamboanga City, Philippines, 7000. Bids will be opened in the presence of the Bidders representatives who choose to attend at the address above. Late



Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
Normal Road, Baliwasan Zamboanga City
www.wmsu.edu.ph
Telephone: 062-991-1771 LOC 1003



bids shall not be accepted.

6. Price validity shall be for a period of 120 calendar days.

7. Bidders shall submit original brochures showing certifications of the product being offered.

8. Warranty shall be for a period of Six (6) months for supplies and materials. One (1) year for equipment, from date of acceptance by WESTERN MINDANAO STATE UNIVERSITY.

9. Bids received in excess of the ABC shall be automatically rejected at Bid Opening.

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.