



Republic of the Philippines
WESTERN MINDANAO STATE UNIVERSITY
Zamboanga City
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www.wmsu.edu.ph

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: Supply and Delivery of Various Engineering Laboratory Equipment
Approved Budget Cost: Php 3,195,000.00
Purchase Request No.: PR 23-01-050
Closing Date: May 23, 2023
Bid Docs: Php 5,000.00
Description:

1.) One (1) unit of Digital Planimeter

Specifications:

Roller Type

- Display: Liquid Crystal, 8 digit figures
- Accumulated Measuring Value: Maximum 10 square meter (scale 1:1)\
- Measuring Range: Maximum vertical width 325 mm Horizontal roller, rotating length: 30m
- Accuracy: within $\pm 0.2\%$ (within $\pm 2/1,000$ pules)
- Power: Built in rechargeable NiCd battery and AC Adapter 100 - 240v (Auto power-off provided)
- Operating hour: Approximately 35 hr Maximum
- with carrying case
- with on site training

2.) One (1) unit of Automatic Digital Level

Specifications:

- 0.7 mm Digital Reading for Height Accuracy
- 2.0 mm Optical Reading for Height Accuracy
- $D < 10\text{mm}$; $D > 10\text{m}$: $D * 0.001$ for Distance Accuracy
- Telescope that is 32 x magnification
- Magnetic - Damped Compensator and an accuracy of $0.30''/1'$
- Data Storage of 16MB (20,000 points)
- External Storage of SD Card
- Display of 160*64 DPI LCD with Illumination

3.) One (1) unit of Spectrum Analyzer

- Interfaces = RS 232, USB, VGA
- Input Impedance = 50Ω
- Frequency range = 150kHz to 3 GHz
- Center Frequency = Setting Resolution - 0.1MH
- Accuracy within $\pm 50\text{kHz}$
(frequency span: 0.3GHz to 2.6 GHz, $20 \pm 5^\circ\text{C}$)
- Power Supply = 220V AC/60 Hz
- Frequency Span = Setting Range 1MHz to 3GHz Accuracy within $\pm 3\%$ (frequency span: 0.3GHz to 2.6GHz, 20 ± 5 Degree Celsius)
- Resolution Bandwidth = Setting Range 30KHz, 100KHz, 300KHz, 1MHz
- SSB Phase Noise = -85dBc/Hz (typical, 500kHz offset, RBW: 30kHz Sweep time: 1.5s, Span 1MHz @ 1GHz.

4.) One (1) unit of Portable Floc / Jar Tester

Specification:

- Stirring place: 4

- Digital Speed Setting: 10-300 rpm
- Timer: at least 24hrs continuous stirring
- Power Supply: 220V, 50-60 Hz
- Beaker Capacity: 1000ml
- With on site training

5.) One (1) unit of Glass Filter with pump

Glass Filter

- 1 piece 500ml, 24/40 ground joint, glass Erlenmeyer flask
- 1 piece 200ml, 24/40 ground joint, glass Bunchner funnel
- 50 pieces filter paper with pore diameter less than 2 microns
- 1 piece 24/40 plastic clip
- 1 piece vacuum hose

Pump

- Peristaltic dosing pump
- adjustable flow rate control
- Flow rate less than 100ml/minute
- Power requirement: 220V/60Hz.

6.) One (1) unit of Bench Top Centrifuge

- Digital Centrifuge
- Input and Output Display in English Language
- Capacity: 50ml x 6
- Maximum Speed: 4000rpm
- Timer: up to 60 minutes
- 6 pieces 50ml test tubes
- Power requirements: 220V/60Hz.

7.) One (1) unit of Deionized Water Machine, Type 2

- Water Output 10L/hour
- Ionic rejection rate 99%
- Organic matter rejection rate > 99%
- Particles and bacteria rejection rate > 99%
- Fully automatic microcomputer control system
- With pressure tank
- Includes consumables (filters, membrane and ion exchange column)
- Power requirement : 220V/60Hz
- With on site training

8.) One (1) unit of UV-Visible SPECTROPHOTOMETER

Specifications:

- Double beam spectrophotometer scanning system
- Measurement range 190-1100 nanometers (nm)
- Wavelength accuracy +/- 1nm
- Scanning speed of up to 500nm/min, with high speed 1nm step
- concentration range: 0.000 to 9999 ppm
- Minimum of four (4) cell holders
- Automatic lamp changing
- Automatic calculations
- Automatic wavelength setting
- USB ports
- LCD digital display data
- with built-in software that can be linked to computer and printer to LCD digital display data
- Power shut-down test data protection
- Complete accessories included (power and computer cables, cells, manuals, software, lamps, etc)
- Input and Output display in English language
- Power requirements: 220V/60Hz
- Quartz cuvette
- Onsite demo training

- with Compatible continuous colored ink tank system printer with scanner
- * Printer Type: Print, Scan, and Copy
- * Copy Quality: Draft, Standard, Best
- * Maximum Print Size: A3
- * Borderless Printing
- * 1 set ink

9.) One (1) unit of Digital Laboratory Refrigerator

- Capacity: Minimum of 300 Liters
- Cabinet Type: Vertical
- Single Door
- Adjustable temperature
- Can be set to 2 Degree Celsius and 20 Degree Celsius
- Microprocessor controller to ensure consistent cabinet temperature
- Digital Display (in English Language)
- Adjustable shelves
- With 4 casters and Stoppers
- Chemically stable, CFC-free, commercially available and environmentally safe refrigerant
- Visual and Audible alarm system: High/low temperature, power failure, sensor error, door ajar, Thermostat failure
- Power failure protection: turn on delay of the cooling system when power failure
- Backup battery to ensure that power alarm after 8 hours
- with Automatic Voltage Regulator
- Power requirements: 220V/60Hz

10.) One (1) unit of Chemical Oxygen Demand (COD), Total Nitrogen and Total Phosphorus Analyzer

- Integrated Multi-parameter Machine Water Quality Analyzer/Rapid Tester
- High Precision
- Can measure (at least) Chemical Oxygen Demand (COD), Ammonia Nitrogen, Total Phosphorus
- LCD Display
- Digital input and output display (in English Language)
- Built-in calibration function
- With data storage function
- with USB interface
- COD detection range up to 10,000 mg/L or ppm
- Ammonia Nitrogen Detection range up to 100mg/L
- Total Phosphorous detection range up to 10mg/L
- Maximum error: 5%
- Can be connected to printer
- 2 sets of reagents
- 2 sets of colorimetric tubes
- Laboratory plastic pipette
- Test tube rack
- Power requirements: 220V/60Hz
- with onsite training

11.) One (1) unit of Total Organic Carbon (TOC) Analyzer

- Can measure at least Total Organic Carbon
- TOC Measurement Range up to 30,000mg/L
- Built-in LCD
- Digital Input and Output (in English Language)
- With data storage function
- Application: Liquid, Solid and Gas Samples
- With USB port and export data
- Detection method - non-dispersive infrared detection (NDIR) method
- UV lamp oxidation
- Max TOC accuracy error: 5%
- Analysis time: under 10minutes
- Automatic sample introduction

-Power requirements: 220V/60Hz

-with onsite training

-with software, and Printer

*Specifications:

Compatible continuous colored ink tank system printer with scanner

Printer Type: Print, Scan and Copy

Copy Quality: Draft, Standard, Best

Maximum Print Size: A3

1 set ink

12.) One (1) unit of Hydrometer Test Equipment consist of:

a.) 6 pcs -Soil Hydrometer 152H

- It has a range of 0.995 - 1.038 in 0.001 divisions and 11 in (280mm) in length

b.) 1 set - Soil Dispersion Mixer

- 1/3 hp motor, has selectable 13,000, 16 000, and 18000 rpm speeds plus a manual pulse switch

- includes a stainless steel dispersion cup

- dimension: 6.5 in x 6.75in x 20.5in (165mm x 171mm x 521mm) W x Diameter x H

c.) 2 pcs - Dispersion Cup

- 1 liter capacity

- Dimension: 4in x 7in (102mm x 178mm) Diameter x H

d.) 6 pcs - Soil Sedimentation Cylinder

- Made of heavy -wall clear glass scribed at the 1,000ml mark

- Dimension: 2.5in x 18in (64mm x 47mm), Diameter x H

e.) 10 bots - Sodium Hexametaphosphate

- Dry Powder Dispersion agent mixed

- 1 lb (0.45kg) per bottle

f.) 2 sets - Digital Precision Balance

- 3200 grams capacity

- 0.01 grams readability

- g,kg, oz, and lb selectable weighing units

- LCD Display

- 220v power supply

g.) 2 pcs. - No. 10 Mesh Sieve

- No. 10(2.0 mm) opening size

- 8" frame diameter

- 2-1/8 in stacked frame height

- stainless, full height, conforms to ASTN E11

h.) 2pcs - No. 200 Mesh Sieve

- No. 200 (75µm) opening size

- 8" frame diameter

- 2-1/8 in stacked frame height

- stainless, full height, conforms to ASTN E11

i.) 2 pcs - Sieve Pan

- 8" frame diameter

-stainless

j.) 2pcs - Sieve Cover

- 8" frame diameter

- Stainless

13.) 1 unit of Handheld Outdoor Air Quality Test Kit

Sensor Specification:

Particulate Matter (PM10 & PM2.5)

- Range: 0.000 to 1.00 mg/m³
- Resolution: 0.001 mg/m³
- Response Time: 5sec.
- Minimum Detection Limit (MDL): 0.001mg/m³
- Relative Humidity (RH): 0 to 90%

Ozone: (O₃)

- Range: 0-015 ppm)
- Resolution: 0.001 ppm
- Response Time: 60 sec
- MDL: 0.001ppm
- RH: 10 to 90%

Nitrogen Dioxide (NO₂)

- Range: 0-1ppm
- Resolution: 0.001 ppm
- Response Time: 30 sec
- MDL: 0.005ppm
- RH: 15 to 90%

Carbon Monoxide (CO)

- Range: 0-25ppm
- Resolution: 0.01 ppm
- Response Time: 60 sec
- MDL: 0.05ppm
- RH: 15 to 90%

Volatile Organic Compound (VOC)

- Range: 0-20ppm
- Resolution: 0.01 ppm
- Response Time: 30 sec
- MDL: 0.01ppm
- RH: 0 to 95%

Monitor Specification:

- Display: Digital LCD
- Sensor Calibration: Zero and Gain Calibration
- Digital Interface: RS-232 to USB
- Analog Output: 0-5V
- Power Supply: 12V DC (Power adapter/charger supplied 100-250 V AC)
- Rechargeable battery: Lithium Polymer 12 V DC 2700 mA/h
- With on site training

Enclosure material and Rating: PC and ABS: IP20 and NEMA 1 equivalent
PC Software Monitor to USB Cable built in data logger
(at least 8,000 records)

14.) One (1) unit of Soil Consolidation Test Equipment consist of:

a.) 1 set - Peumatic Consolidation Load Frames

- load capacity of 6, 128kPa
- minimum of 188(13bar) of compressed air
- dimension: 12 inches width x 14.5inches breadth x 21in height)
- conforms ASTM D2435, ASTM D4546
- digital readout
- loading ball included

- b.) 1 set - Fixed Ring Consolidometer
 - 100mm (3.94in) specimen size
 - Type: fixed ring
 - dimension: 6" diameter x 2.5" Height
 - with 100mm cutting sample ring and loading ball

- c.) 1 pc - Calibration Disc
 - 100mm (3.94 in) specimen size
 - dimension: 3.937 x 1.0in (100 x 25.4 mm). D x H

- d.) 1 set - Digital Dial Indicator
 - 0.6 inch x 0.0001 inch
 - Inches/mm switchable

- e.) 1 set- Magnetic Gauge Holder for Dial Indicators
 - Base: 1.125inches width x 3.5inches Breadth x 1inch Height
 - Rod: 0.25 x 6 in (6.3 x 152 mm) D x L
 - Swivel Adapter: 3in (76mm)

- f.) 1 set - Linear Variable Displacement Transducers
 - 0-2in (0to 51mm) range
 - Repeatability to 0.002 mm
 - dimension: 0.75 inch Length x 1.75 inches width x 7.75 inches height

- g.) 4 pcs - Porous Stone
 - 100mm (3.94 in) size in diameter
 - 6.35 mm (0.25in) thick
 - material: alumimum oxide
 - shape: disc

- h.) 2 packs- filter Paper
 - 4.0 in diameter
 - Grade 55
 - flow rate: 220 ml/min
 - 100pcs per pack

- i.) 1 set - Consolidation Data Acquisition Software
 - Automatically records the rate of consolidation during the incremental loading of soil samples
 - real time graphing and calculations are performed

- j.) 1 set - Data Readout Box
 - Four -Channel data readout

- k.) 1 set - Pore Pressure Transducer with Deairing Block
 - Pressure rating : Up to 150psi (1,034.21 kPa) with 0.01psi (0.07kPa) resolution
 - Transducer Operating Temperature: -40degrees - 125degrees Celcius

- l.) 1 pc - Data Readout Mounting Bracket
 - fits Load Frames with 1.25 in (31.8mm) nominal diameter vertical load rods

- m.) 1 set S-Type Load Cell
 - Load capacity: 20,000lb (88.96kN)
 - rated output: 3.0 mV/V
 - with loading button of 1-1/4 in x 12tpi thread size

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 3 until May 23, 2023 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 Five Thousand Pesos (Php.5,000.00). (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. 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. Pre-Bid Conference shall be on May 10, 2023 at 9:30 A.M. at BAC Office, 2nd Floor Admin Building, WMSU, Zamboanga City, Philippines, 7000.
5. Bid opening shall be on May 23, 2023 at 9:30 A.M. at BAC Office, 2nd Floor Admin 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 bids shall not be accepted.
6. Deadline of Bid Submission will be on or before May 23, 2023 at 9:30 A.M. through Manual Submission.
7. Price validity shall be for a period of 120 calendar days.
8. Bidders shall submit original brochures showing certifications of the product being offered.
9. 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.
10. 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.