



Bids and Awards Committee

REPUBLIKANG PILIPINAS
Republic of the Philippines
PAMANTASANG NORMAL NG PILIPINAS
PHILIPPINE NORMAL UNIVERSITY
PAMBANSANG SENTRO SA EDUKASYONG PANGGURO
National Center for Teacher Education
Mindanao
Mindanao

INVITATION TO BID
NO. PNU-MIN CW 2016-08-013

The **Philippine Normal University- Mindanao, Prosperidad, Agusan del Sur** through its Bids and Awards Committee (BAC) invites bids from eligible bidders to apply for eligibility and to bid for the following project:

Name of Contract : **POINT TO POINT/WIRELESS LOCAL AREA NETWORK-
INFRA/HOTSPOT INTERNET CONNECTIVITY**

Approved Budget for the Contract : Php621,500.00

Expected Contract Duration : **THIRTY (30) CALENDAR DAYS**

A complete set of Bidding Documents may be purchased by interested bidders from the address below and upon payment of a non-refundable amount of **One Thousand Pesos Only (Php1,000.00)** starting **August 2, 2016 to August 23, 2016** from **9:00am to 4:00pm**. The method of payment will be in cash basis.

Bidding will be conducted through open competitive bidding procedures using non-discretionary pass/fail criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184), otherwise known as the "Government Procurement Reform Act".

Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids will not be accepted. Bids received in excess of the ABC will be automatically rejected at the bid opening.

For purposes of Bidding Activities, the following schedule shall be observed:

Pre-Bid Conference	August 10, 2016, 10:00 AM PNU-Mindanao, Conference Room
Submission and Opening of Bids	August 24, 2016, 10:00 AM PNU-Mindanao, Conference Room.

The Philippine Normal University- Mindanao Bids and Awards Committee reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

MA. TERESA P. BAYLON, Ph.D.
Chair, Bids and Awards Committee
Philippine Normal University-Mindanao
Prosperidad, Agusan del Sur
Tel. No. 085-241-3082
email add: baylon.mtp@pnu.edu.ph

MA. TERESA P. BAYLON, Ph.D.
Chair, BAC

Section VI. Specifications

Notes on Specifications		
PARTICULARS	Qty	Unit/Lot
Equipment and Materials:		
<p>a. 120deg. Sectoral AP (5 Ghz) + Accessories</p> <p>Product Features</p> <ul style="list-style-type: none"> • CPU : 720 MHz • Data Storage: 128MB NAND • Size of RAM: 128 MB DDR2 300MHZ • SFP cage : 1 <p>Product specifications:</p> <ul style="list-style-type: none"> • Antenna Gain: 19dBi • Frequency Range: 5: 17-5.825GHz • Polarization: Vertical and Horizontal • 3DB Beam Width- azimuth: 120deg • 3DB Beam width- elevation: 5deg • VSWR: 1,43typ,1.8 max • Port to port isolation: >40dB min • Front-to-back ratio : >30dB • Cross Polarization: > 30Db 	1	Lot
<p>b. Cloud Router/ Bandwidth Manager</p> <p>b.1 Product Features</p> <ul style="list-style-type: none"> • CPU PowerPC Dual- Core 1066MHz network processor • Memory- SODIMM DDR slot, 2GB installed • Ethernet- Thirteen 10/100/1000 Mbit/s Gigabit Ethernet with Auto – MDI/X • Ethernet – Includes switch to enable Ethernet bypass in two ports • Storage- Two micro SD slots • Serial port- One DB9 RS232C asynchronous serial port • Extra- Reset switch, Beeper • Power Options- IEC C14 standard connector 110/22V • Fan Dual fan with fail over support mounted at case back • Dimensions- 1U case: 44 x 176 x 442 mm, 1275g. Board only : 365g • Operating System- OS v5, Level 6 license (100-800 users) 	1	Unit

<p>b.2 Product Specifications</p> <ul style="list-style-type: none"> • CPU nominal frequency: 1GHz • CPU core count: 9 • Size of RAM : 1 GB • 10/100/1000 Ethernet ports : 8 • Number of USB ports: 1 • Power Jack: 1 • PoE in: Yes • Supported input voltage: 14V-57V • License Level: 6 • SFP ports :1 • Serial port: RS232 + Header • Storage size: 128MB • Operating System Level 6 (800-2000 users) <p>b.3 Product Specifications</p> <ul style="list-style-type: none"> • CPU nominal frequency: TILE – Gx9, 9 cores, 1 GHz • Size of RAM : 2 GB • Storage size : 128 MB • 10/100/1000 Ethernet ports: 8 • Number of USB ports : 1 • PoE in : Yes • Supported input voltage: 14V-57V • Voltage Monitor Yes Yes • PCB temperature Monitor : Yes • CPU Temperature Monitor: Yes • LCD: Yes • Operating System: Level 6 license (2000-4000 users) • Max Power consumption 30W • SFP ports: 1 • USB slot type: Micro USB type AB • Storage expansion: micro SD • Serial port: RS232 		
<p>c. 24 Gport L3 Switch (Fiber and Wireless Enabled, desktop case)</p> <p>Product Features</p> <ul style="list-style-type: none"> • Fully manageable L# switch, full wire speed switching • Configure ports as switch, or for routing 	4	Units

<ul style="list-style-type: none"> • Full Router OS power right • Ethernet, Fiber, or 4G (with optional USB modem) gateway connection to Internet • Router OS gateway/ firewall/ VPN router • Up to twenty- five gigabit switch ports (1xSFP and 24xRJ45) • 1000mW high power 2.4GHz 11n wireless AP <p>Product Specifications</p> <ul style="list-style-type: none"> • CPU: Qualcomm Atheros AR9344 600 MHZ • Memory: 128MB • Ethernet: 24x10/100/1000 Mbit/s Gigabit Ethernet with Auto –MDI/X • Expansion: micro USB port • Storage: 128MB Onboard NAND with multiple OS partition support • Serial Port: One RJ45 Serial port • Extras: Reset switch; beeper; voltage and temperature monitoring, touchscreen LCD • Power Options: IEC C14 standard connector 110/220V,PSU included • OS: RouterOS v6, level 5 license 		
<p>d. 5Ghz PtP CPE + Accessories</p> <ul style="list-style-type: none"> • CPU Nominal Frequency: 600 MHZ • CPU Core Count 1 • Size of RAM : 64 MB • 10/100 Ethernet Ports 1 • Wireless Standards: 802.11 a/n • Wireless Chip Model : AR9344 • PoE In : Yes • Supported Input Voltage: 11V-30V • Dimension: 391 x 222 mm (15.4 x 8.75"): Package: 450x 145 mm (17.7 x 5.7") • Operating Temperature Range: -4 to 70° C • License Level: 3 • Antenna Gain DBI: 24.5 • CPU: AR9344 • Max Power Consumption: 6W • Number of chains : 2 • Storage Type: FLASH • Storage Size : 16 MB 	15	Units

e. 2.4 Ghz Access Point (Campus-Wide Hotspot) + Accessories 4 units

Product Specifications:

- CPU: Atheros AR7241 400MHz
- Memory: 32MB DDR SDRAM on board
- Antenna: Dual- Pol 2GHz, 10dBi,-18dB port to port isolation
- Ethernet: (1) 10/100/1000 Gigabit Ethernet Port
- Wireless Cards: on board dual chain 2GHz 802.11 b/g/n Atheros wireless module
- Power: 24V DC 0.8A power adapter and passive PoE injector
- Dimension : 140x140x56mm (5.5"x5.5" x2.2")
- Power Consumption : Up to 7 W
- Operating Temperature: -30°C to 80°C

f. 50 ft Antenna Mast Fabrication and Erection	1 lot
g. Hotspot Manager Software	1 lot
h. Cat-6 Shielded Twisted Pair (STP) Cable	900 mtrs
i. Cat-6 Unshielded Twisted Pair (UTP) Cable	600 mtrs
j. 300 W UPS System (Inverter/ Charger + Battery)	1 lot
k. Installation / Configuration Cost	1 lot

Section VII. Drawings

Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section or annexed in a separate folder

f. 50-ft. Antenna Mast Fabrication and Erection

1

lot

f. Antenna Mast Details:

