

Department of Environment and Natural Resources  
**BIODIVERSITY MANAGEMENT BUREAU**  
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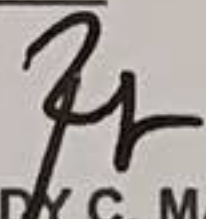
Date : **September 8, 2020**  
Quotation No. : **0229-09-2020**

**REQUEST FOR QUOTATION**

Company Name \_\_\_\_\_

Address \_\_\_\_\_

Please quote your lowest price on the item/s listed below, stating the shortest time of delivery and submit your quotation duly signed by your representative not later than \_\_\_\_\_

  
**RANDY C. MABANA**  
Head, BAC Secretariat

- NOTE :
1. ALL ENTRIES MUST BE TYPEWRITTEN OR PRINTED LEGIBLY
  2. DELIVERY PERIOD WITHIN **15** CALENDAR DAYS
  3. WARRANTY SHALL BE FOR A PERIOD OF SIX (6) MONTHS FOR SUPPLIES & MATERIALS, ONE (1) YEAR FOR EQUIPMENT, FROM DATE OF ACCEPTANCE BY THE PROCURING ENTITY
  4. PRICE VALIDITY SHALL BE FOR A PERIOD OF **30** CALENDAR DAYS
  5. PHIL-GEPS REGISTRATION CERTIFICATE SHALL BE ATTACHED UPON SUBMISSION OF THE QUOTATION
  6. BIDDERS SHALL SUBMIT ORIGINAL BROCHURES SHOWING CERTIFICATIONS OF THE PRODUCT BEING OFFERED

ITEM NO.	ITEMS/DESCRIPTIONS	QTY./ UNIT	UNIT PRICE	TOTAL PRICE
1	802.11ac x 3x3 MIMO Dual Band Wifi Indoor Access Point	1 Pc.	P_____	P_____
2	Tablet Computer 11" (Wi-fi + Cellular)	1 Pc.	P_____	P_____
3	1080P Full HD Conference Video Web Camera	1 Pc.	P_____	P_____
4	UHF 8 Channel Gooseneck Conference Microphone System (with 8 Wireless Gooseneck Microphones)	1 Pc.	P_____	P_____
5	Motorized Projector Screen with Remote (plus installation)	1 Pc.	P_____	P_____
6	Dual Band Outdoor Access Point	1 Pc.	P_____	P_____
Note: Please see attached complete specification.				
ABC: P177,700.00				
Bidders must submit the following requirements:				
1. DTI/SEC Registration Certificate				
2. Mayor's Permit				
3. PHILGEPS Certificate of Registration				
4. BIR Certificate of Registration				

Brand : \_\_\_\_\_  
Delivery Period : \_\_\_\_\_  
Warranty : \_\_\_\_\_  
Price Validity : \_\_\_\_\_

After having carefully read and accepted your Request for Quotation, I/We quote you on the item at prices noted above.

Printed Name/Signature \_\_\_\_\_

Tel. No./Cellphone No. \_\_\_\_\_

e-mail address \_\_\_\_\_

Date \_\_\_\_\_



# TECHNICAL SPECIFICATIONS

## 1. 802.11ac x 3x3 MIMO Dual Band WiFi Access Point

- **Power Supply:** PoE Switch (Included)
- **Environment:** Indoor
- **2.4 GHz Radio Rate:** 450 Mbps
- **5 GHz Radio Rate:** 1300 Mbps
- **PoE Mode:** 802.3at PoE+
- **Networking Interface:** (3) 10/100/1000 Ethernet Ports
- **Buttons:** Reset
- **Power Method:** 802.3at PoE+ Supported
- **PoE Out:** 48V Pass-Through (Pins 1, 2+; 3, 6-)
- **Maximum Power Consumption:** 10W
- **Maximum TX Power**
  - 2.4 GHz: 22 dBm
  - 5 GHz: 22 dBm
- **Antennas:** (1) Dual-Band Antenna, Single-Polarity
  - 2.4 GHz: 5 dBi
  - 5 GHz: 6.5 dBi
- **Wi-Fi Standards:** 802.11 a/b/g/n/r/k/v/ac
- **Wireless Security:** WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)
- **BSSID:** Up to 8 per Radio
- **Mounting:** 1-Gang Electrical Wall Box (Not Included)
- **Certifications:** CE, FCC, IC
- **Dimensions:** 139.7 x 86.7 x 25.75 mm (5.5 x 3.41 x 1.01")
- **Weight:** 210 g (7.41 oz)
- **Warranty:** 1 year

## 2. 11" Tablet Computer

<b>Capacity</b>	:	<b>128Gb</b>
<b>Display</b>	:	<b>11" Liquid Retina Display</b> Liquid Retina display 11-inch (diagonal) LED-backlit Multi-Touch display with IPS technology 2388-by-1668-pixel resolution at 264 pixels per inch (ppi) ProMotion technology Wide color display (P3) True Tone display Fingerprint-resistant oleophobic coating Fully laminated display Antireflective coating 1.8% reflectivity 600 nits brightness
<b>Chip</b>	:	A12Z Bionic chip with 64-bit architecture Neural Engine Embedded M12 coprocessor



## Camera

- Wide: 12MP, f/1.8 aperture
- Ultra Wide: 10MP, f/2.4 aperture, and 125° field of view
- 2x optical zoom out; digital zoom up to 5x
- Five-element lens (Wide and Ultra Wide)
- Brighter True Tone flash
- Panorama (up to 63MP)
- Sapphire crystal lens cover
- Backside illumination sensor
- Hybrid IR filter
- Autofocus with Focus Pixels (Wide)
- Tap to focus with Focus Pixels (Wide)
- Wide color capture for photos and Live Photos
- Exposure control
- Noise reduction
- Smart HDR for photos
- Auto image stabilization
- Burst mode
- Timer mode
- Photo geotagging
- Image formats captured: HEIF and JPEG

## Video Recording

- 4K video recording at 24 fps, 30 fps, or 60 fps (Wide); 60 fps (Ultra Wide)
- 1080p HD video recording at 30 fps or 60 fps
- 720p HD video recording at 30 fps
- Brighter True Tone flash
- Slo-mo video support for 1080p at 120 fps or 240 fps (Wide); 240 fps (Ultra Wide)
- Time-lapse video with stabilization
- Cinematic video stabilization (1080p and 720p)
- Continuous autofocus video
- Noise reduction
- Take 8MP still photos while recording 4K video
- Playback zoom
- Video geotagging
- Video formats captured: HEVC and H.264

## TrueDepth Camera

- 7MP photos
- Portrait mode
- Portrait Lighting
- Animoji and Memoji
- 1080p HD video recording at 30 fps or 60 fps
- Retina Flash
- f/2.2 aperture
- Wide color capture for photos and Live Photos
- Smart HDR



- Backside illumination sensor
- Auto image stabilization
- Burst mode
- Exposure control
- Timer mode

#### **Video Calling**

- FaceTime video
- iPad to any FaceTime-enabled device over Wi-Fi or cellular

#### **Audio Calling**

- FaceTime audio
- iPad to any FaceTime-enabled device over Wi-Fi or cellular

#### **Speakers**

- Four speaker audio

#### **Microphones**

- Five studio-quality microphones for calls, video recording, and audio recording

#### **Cellular and Wireless**

##### **All models**

- 802.11ax Wi-Fi 6; simultaneous dual band (2.4GHz and 5GHz); HT80 with MIMO
- Bluetooth 5.0 technology

##### **Wi-Fi + Cellular models**

- UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100, 1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900 MHz)
- Gigabit-class LTE (Models A2068 and A2069: bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 14, 17, 18, 19, 20, 25, 26, 29, 30, 34, 38, 39, 40, 41, 42, 46, 48, 66, 71)<sup>4</sup>
- Data only
- eSIM

#### **SIM Card**

- Nano-SIM (supports Apple SIM)
- eSIM

#### **Location**

##### **All models**

- Digital compass
- Wi-Fi
- iBeacon microlocation

##### **Wi-Fi + Cellular models**

- Built-in GPS/GNSS
- Cellular

#### **Sensors**

- Face ID
- LiDAR Scanner
- Three-axis gyro
- Accelerometer
- Barometer
- Ambient light sensor



**Face ID**

- Enabled by TrueDepth camera for facial recognition
- Unlock iPad
- Secure personal data within apps
- Make purchases from the iTunes Store and App Store

**Charging and Expansion**

- USB-C

**Power and Battery<sup>2</sup>**

Built-in 28.65-watt-hour rechargeable lithium-polymer battery

Up to 10 hours of surfing the web on Wi-Fi or watching video

Charging via power adapter or USB-C to computer system

**Wi-Fi + Cellular models**

Up to 9 hours of surfing the web using cellular data network

**Operating System****iPadOS**

iPadOS comes with powerful features and built-in apps designed to take advantage of the unique capabilities of iPad.

**Accessibility**

Accessibility features help people with disabilities get the most out of their new iPad Pro. With built-in support for vision, hearing, mobility, and learning, you can create and do amazing things.

**Features include:**

- VoiceOver
- Zoom
- Magnifier
- Dictation
- Switch Control
- Closed Captions
- AssistiveTouch
- Speak Screen

**Warranty : 1 year**

**Keyboard:** Smart Keyboard Folio for iPad Pro 11-inch (2<sup>nd</sup> generation) – US English



### 3. 1080P Full HD Conference Video Web Camera

#### General

Audio Support Yes: built-in speaker, built-in microphone

Connectivity Technology : Wired  
Device Type : Web camera

#### Camera

Digital Video Format : H.264

Features : USB 2.0 compatibility, Carl Zeiss optics, Skype compatible

Max Digital Video Resolution : 1920 x 1080

Type : Colour - pan / tilt / zoom

Video Capture : 1920 x 1080 @ 30 fps

Focus Adjustment : Automatic

Panning Range : 180 degrees

Tilting Range : 55 degrees

#### Expansion / Connectivity

Interfaces : 1 x headset - mini-phone 3.5 mm | 1 x USB 2.0 - 4 pin USB Type A

#### Interfaces

Computer Interface : USB 2.0

#### Software / System Requirements

OS Compatibility/Required : Apple MacOS X 10.7 or later, Microsoft Windows 7 / 8.1 / 10

**Warranty : 1 year**



#### 4. UHF 8 Channel Gooseneck Conference Microphone System (with 8 Wireless Gooseneck Microphones)

- Ultra-high frequency 8-Channel UHF Gooseneck Conference wireless Condenser Microphone receiver.
- Four(4) professional antennas with high frequency stability and accuracy. The PLL digital phase-locked loop multi-channel frequency synthesis technology has small interference, more reliable transmission
- Designed for large meeting places, the UHF Professional Gooseneck Microphone have flexible gooseneck adjustable to the best angle , individual power switch and runs on 1.5V AA battery
- Independent mic volume control: Individual volume control to precisely balance and adjust vocal sound. Red LED lights above each volume knob enable users visualize the pair up between receiver and transmitters.
- Metal receiver features 8 XLR outputs and one 1/4" audio output jack to connect to your amplifier, mixer, or other PA system.
- Comply with new FCC frequency rules. Fixed Frequencies:  
A :  
520.10Mhz,525.10Mhz,501.00Mhz,511.50Mhz,550.10Mhz,555.10Mhz,524.00Mhz,538.50Mhz.  
B :  
523.70Mhz,527.70Mhz,506.00Mhz,517.50Mhz,553.70Mhz,557.70Mhz,531.00Mhz,546.50Mhz. Operation Range: up to 200 Feet (60 Meters)within line of sight.

**Warranty : 1 year**

#### 5. Motorized Projector Screen with Remote

- ✓ Ultra bright screen surface
- ✓ Wrinkle free
- ✓ Black border
- ✓ Lightweight
- ✓ Equipped with powerful low-noise motor
- ✓ 70"x 70" or 60"x 84" size
- ✓ With remote control and wired control
- ✓ Including installation

**Warranty : 1 year**

#### 6. DUAL BAND OUTDOOR ACCESS POINT



<b>PHYSICAL</b>
<b>Power:</b> PoE: 802.3af compliant (PoE injector optional)
<b>Interfaces:</b> Uplink: 1 x 10/100/1000Base-T Ethernet, Auto MDIX, RJ-45 with 802.3af PoE
<b>Power Consumption:</b> 12W max.
<b>Antenna:</b> Type: 2 x External N-type connectors
<b>Mounting:</b> Pole/wall mount (Mounting kit included)
<b>Wi-Fi</b>
<b>Standards:</b> • 802.11 a/b/g/n • Selectable dual-band 2.4/5 GHz
<b>Supported Data Rates:</b> • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11n: 6.5 – 144.4 Mbps (20 MHz), 13.5 – 300 Mbps (40 MHz)
<b>Radio Chains:</b> 2 x 2
<b>Spatial Streams:</b> 2
<b>Output Power:</b> • 2.4 GHz: Up to 27 dBm*1 • 5 GHz: Up to 25 dBm*1
<b>Channelization:</b> • 20 MHz • 40 MHz
<b>Frequency Band:</b> • 2.412 – 2.472 GHz • 5.180 – 5.825 GHz
<b>Operating Channels:</b> • 2.4 GHz: 1 – 11 (US), 1 – 13 (Europe), 1 – 13 (Japan) • 5 GHz*2: 36 – 165 (US), 36 – 140 (Europe), 100 – 140 (Japan)
<b>ESSIDs:</b> Up to 16
<b>Operating Modes</b> • AP Mode • WDS Mode • CPE Mode • Universal Repeater Mode
<b>CPE Mode Features:</b> • Built-in NAT functionality • Built-in DHCP server • Uplink/downlink bandwidth management • IP/Port forwarding and DMZ • Built-in DNS/DDNS client
<b>PERFORMANCE</b>
<b>Physical Data Rate:</b> Up to 300 Mbps
<b>Concurrent Users:</b> Up to 256

## Maximum Deployment Flexibility

Supporting 802.3af PoE, the OWL530 can be easily placed in outdoor locations where traditional power sources are unavailable. Furthermore, the OWL530's protective vent plug can prevent salt corrosion and moderate condensation, while the ground wire can prevent damage caused by potential power surges. Along with the IP68 rated housing, the OWL530 can be placed in virtually any climate, altitude, or geographic location.

In addition to the traditional AP mode, the OWL530 can also operate in WDS, Universal Repeater, or CPE mode. In WDS mode, the OWL530 can establish multiple WDS links and bridge neighboring 4ipnet APs together. In Universal Repeater mode, the AP can expand wireless coverage with minimal configuration effort. Lastly, the OWL530 can be configured in CPE mode as an ideal last-mile solution for wireless ISPs (WISPs). The diversity of applications makes the OWL530 a perfect choice for any outdoor deployment.

## Multiple Operational Modes

### Reduced Interference & Improved Performance



By supporting Wi-Fi operation in the 5 GHz frequency band, neighboring access points can operate on non-overlapping 40 MHz channels, providing double the throughput of 20 MHz channels without inducing adjacent channel interference. Furthermore, 5 GHz networks offer more stable performance, as they are less susceptible to interference from other devices that emit RF signals in the 2.4 GHz band, such as bluetooth devices, microwave ovens, and wireless peripherals.

### **Enterprise-grade, Standards-based Security**

With 802.1X authentication and a backend RADIUS server, the OWL530 can prevent unauthorized users from accessing the network. Furthermore, the AP's Layer 2 firewall capability blocks unwanted traffic, reducing network overhead and providing an added layer of security. Finally, the AP can be configured with multiple SSIDs, each utilizing different security standards (e.g. WPA2-Enterprise) and VLAN tags, which enables easy network segmentation.