



# PhilGEPS

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## Bid Notice Abstract

### Request for Quotation (RFQ)

Reference Number 7093135  
 Procuring Entity OFFICE OF THE PRESIDENT  
 Title RFQ / 20-06-1407 / PROCUREMENT OF WIRELESS BACKHAUL  
 Area of Delivery Metro Manila

<b>Solicitation Number:</b> 20-06-1407	<b>Status</b>	<b>Pending</b>
<b>Trade Agreement:</b> Implementing Rules and Regulations	<b>Associated Components</b>	1
<b>Procurement Mode:</b> Negotiated Procurement - Small Value Procurement (Sec. 53.9)	<b>Bid Supplements</b>	0
<b>Classification:</b> Goods	<b>Document Request List</b>	0
<b>Category:</b> Information Technology	<b>Date Published</b>	08/07/2020
<b>Approved Budget for the Contract:</b> PHP 935,000.00	<b>Last Updated / Time</b>	07/07/2020 15:47 PM
<b>Delivery Period:</b> 60 Day/s	<b>Closing Date / Time</b>	15/07/2020 17:00 PM
<b>Client Agency:</b>		
<b>Contact Person:</b> Patricia Kaye Lorio Amate Presidential Staff Officer I Procurement Unit, Rm 123 Mabini Hall Bldg., J.P. L Malacañang Complex, San Miguel Manila Manila Metro Manila Philippines 1005 63-2-87844286 Ext.4601 63-2-87844286 procurement_unit@malacanang.gov.ph		
<b>Description</b>		
<p>A) REQUEST FOR QUOTATION</p> <p>1. 1 Lot IP Radio PTP 550 Integrated 5Ghz (ROW) with US Line Card</p> <p>Engineering &amp; Installation of Materials</p> <p>Engineering and Installation Services radio, Commissioning and Orientation</p> <p>Terms and Conditions</p> <p>INSTALLATION OF WIRELESS BACKHAUL</p> <p>I. OBJECTIVE/PURPOSE</p> <p>Office of the President is looking for a Wireless Backhaul that would interconnect JP Laurel and Solano PSG gates, PACC and Malacanang Motorpool to Mabini Hall Building. The solutions must comply with the following detailed Technical Specifications:</p> <p>Project Overview and Description:</p> <p>One of the main purpose of this Project is to connect PSG Gates (Solano, JP Laurel &amp; Arlegui) and Malacanang Motorpool to manage the flow and transmission of video/information/data across. Thru this device (network switch), with updated software applications and proper configuration, the accounted traffic flow of data and voice services will further improve our network performance. And finally, the wireless backhaul project will further provide network security with solutions designed to interoperate and engage real-time data secure access, provide intelligence, and sense suspicious activity even in encrypted traffic.</p> <p>Proposed layout and schematic design of network switches is hereto attached.</p> <p>II. TECHNICAL REQUIREMENTS</p> <p>A. 1.4 Gbit CAPACITY</p> <p>Must have at latest Point to Point Gigabit throughput solution based on 802.11 ac Wave 2 operating in 5 GHz wireless space.</p> <p>Must have gigabit capacity need for high speed backhaul solution for mid range and long range applications.</p> <p>B. Hardware Requirements:</p>		

METAL HOUSING. - Must have a Metal enclosure, which protects radio from extreme condition and solar radiation.  
 ANTENNA ALIGNMENT. - Must provide accurate and reliable way the radio.  
 CHANNEL BONDING. - Must have an independent channel bandwidth that provides for flexibility in channel section, band selection and address throughput requirements.  
 Dynamic Spectrum Optimization (DSO) - Must have a Dynamic Spectrum Optimization, systems that can constantly optimize the channel of operation to maximize link reliability performance. And performance.

RF BANDS - Wide-band operation 5.150 to 5.950 GHz (Allowable frequencies and bands are dictated by individual country regulations)  
 CHANNEL SIZES - 2 channels, each channel with 20, 40, & 80 MHz  
 SPECTRAL EFFICIENCY - 8.5 BPS/Hz maximum  
 CHANNEL SELECTION - Fixed frequency or DSO\*  
 MAXIMUM TRANSMIT POWER - Up to 27 dBm  
 SYSTEM GAIN - Up to 27 dBm with integrated Antenna  
 RECEIVER SENSITIVITY - MCS\Rx Sensivity - 20MHz, 40 MHz, 80MHz lowest MCS -90dBm, -87 dBm, -83dBm  
 Highest MCS -90dBm, -66 dBm, -59 dBm  
 MODULATION - MCS 0 TO MCS 9  
 DUPLEX SCHEME - Time Division Duplex (TDD)  
 Multiple transmit/receive duty cycles  
 Split frequency operation allows separate transmit and receive frequencies where allowed by regulation.  
 ANTENNA - Integrated Flat panel: 23 dBi  
 Connectorized: Can operate w/ a selection of separately-purchased single-and-dual-polarity antennas through 2 x N-type female connectors  
 RANGE- Up to 122 miles (200 km)  
 SECURITY - 128-bit AES Encryption  
 Factory mode recovery  
 ETHERNET BRIDGING  
 PROTOCOL - IEEE 802.3  
 LATENCY - 4-5 ms one direction  
 PACKET CLASSIFICATION - layer2 and Layer 2 IEEE 802.1P, Ethernet priority  
 MAX PACKET SIZE - 1700 Bytes  
 FLEXIBLE I/O - 1 Gigabit Port: Data + PoE power input  
 1SFP port (single-mode fiber, multi-mode fiber and copper Gigabit Ethernet options available)  
 MANAGEMENT  
 NETWORK MANAGEMENT - In-band management  
 SYSTEM MANAGEMENT - IPV6/ipV4 dual-stack management support  
 SNMPv2 and SNMPv3, https, WPA-PSK2  
 Online spectrum analyzer (no impact on payload traffic)  
 INSTALLATION - Built-in e-alignment using GUI on Radio to assist in installation  
 PHYSICAL  
 DIMENSIONS - Integrated Outdoor Unit (ODU): Width 305mm (12"), Height 305mm (12"), Depth 68mm (2.2")  
 Connectorized ODU: Width 278mm (11") Height 185mm (7"), Depth 88mm (3.5")  
 WEIGHT - Integrated ODU: 2.2 kg (4.85lbs) including bracket  
 OPERATING TEMPERATURE - -40° to + 140°F (0° to +40°C); 35W; 90-240 VAC, 50/60Hz Dimensions: Width 5.2" (132mm), Height 1.4" (36mm), Depth 2" (51mm)  
 POWER CONSUMPTION - 30 W maximum  
 ENVIRONMENTAL & REGULATORY  
 PROTECTION & SAFETY - UL60950-1/22; IEC60950-1/22; EN60950-1.22 CSA-C22.2 No.60950-1/22; CB approval w/ all National Deviations  
 RADIO - 5.X GHz; fcc Part 15E; RSS 247 Issue 2; EN 302 502; EN 301 893  
 EMC - US Part 15B, Canada RSS-GEN, Europe-EN 301 489-1 and -17

#### C. Gigabit Ethernet Surge Suppressor

Must have a design outdoor wireless broadband solution that can operate in the toughest of environments. Lightning strikes are the most typical cause of system outages or failures of mast-mounted equipment especially when mounted as high as 300m.

The Gigabit Ethernet Surge Suppressor is critical for lightning protection to minimize the potential for damage. Network operators should always follow best-practices for grounding and lightning protection. Doing so will minimize network outages and reduce the associated costs of tower climbs and equipment repair/replacement. The Gigabit Ethernet Surge Suppressor is compatible with the Access Point and Subscriber Module that are suitable for mounting to a wall or pole.

#### TECHNICAL SPECIFICATIONS:

TRANSFER RATE 1000 Base T  
 CONNECTORS Two x RJ-45  
 NORMAL VOLTAGE 56V  
 PROTECTION MODE Line-to-line and line-to-ground  
 SURGE ARRESTOR TVS Diodes (Transient Voltage Suppression for longer operational life)  
 SURGE CURRENT RATING L-G, total - 172A, 10/1000us  
 RESPONSE TIME 5 nanoseconds typical  
 MOUNTING Pole mount or wall mount  
 DIMENSIONS 46 in.x34 in. x 18 in (118mm x 87.5mm x 46.5mm)  
 WEIGHT 0.34 LBS (156 gm)  
 WIND SURVIVAL 200 mph (321 km/hour)  
 OPERATING TEMPERATURE -40°F (-40°C) to + 140°F (+60°C)  
 HUMIDITY 100% condensing  
 ENVIRONMENTAL PROTECTION IP54 (Dust and Water Instrukon Protection)

#### III. SCOPE OF Works and Services

Installation  
 Termination  
 Full Configuration

#### A. WORK SCHEDULE

Working period shall be eight (8) hours a day from 8:00 AM to 5:00 PM, Monday to Friday, excluding legal and special holidays.

**B. PAYMENT SCHEDULE**

The payment for the maintenance services shall be thirty (30) days upon submission of the following:

Billing Invoice  
 Delivery Receipts of Materials  
 As Built Plans  
 Test Results  
 Certificate of Work Acceptance

**C. OTHER CONSIDERATIONS****ELIGIBILITY OF BIDDER**

The Project Contractor must have the following classifications:

1. Must be certified reseller, installer, and/or partner of products being offered
2. Minimum of ten (10) years in IT Business.
3. Must have at least five (5) previous contracts with government agency.

**IV. DELIVERY / IMPLEMENTATION OF SERVICES**

This project shall be completed for a period of sixty (60) working days from the effectivity date of Notice to Proceed, EXCLUDING

The necessary security clearance to be issued by the Presidential Security Group Command, Office of the President

**IV. Warranty Requirement**

The supplier shall provide maintenance service level agreement which includes twelve (12) months warranty on system parts & labor including on-site support upon acceptance of delivery of the hardware; service calls, repair or replace faulty items without charge.

**V. TRAINING REQUIREMENTS**

Supplier shall provide the necessary training for the end-user's management and operation of the system upon completion of the Project.

**B) USE COMPANY LETTERHEAD FOR YOUR QUOTATION & ADDRESS TO:**

DIR. JAMES JUPER B. AGUILAR  
 Head, Procurement Unit  
 Office of the President  
 M-123 Mabini Hall, J.P. Laurel St.,  
 Malacañang Complex,  
 San Miguel, Manila

Tel Number: (02) 784-4286 / 8554-8600 loc. 8238

Tel Number: (02) 784-4286 / 8554-8600 loc. 4601

**Email Address:**

procurement\_unit@malacanang.gov.ph  
 op.procurementunit@gmail.com.ph

**C) ELIGIBILITY DOCUMENTS MUST BE ATTACHED TO THE QUOTATION**

1. Latest/updated/valid PhilGEPS Registration Certificate
2. Latest/valid Mayor's Permit
3. Income / Business Tax
4. Omnibus Sworn Statement (Original Copy- Upon Award)

**Note:**

- Kindly Attach the Complete Eligibility Documents to Avoid DISQUALIFICATION.
- Include the BACK PAGE OF THE MAYOR'S/BUSINESS PERMIT if Available
- Scan the Documents in a manner that the entries are legible/readable.

**D) INDICATE IN YOUR QUOTATION THE FOLLOWING**

1. Terms of Payment:
2. Warranty:
3. Place of Delivery:
4. Delivery Period:
5. Price Validity Period:
6. Stock Availability:
7. Certificate of Exclusive Distributorship, if any
8. Brand
9. TIN

**Created by** Patricia Kaye Lorio Amate

**Date Created** 07/07/2020

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