

Republic of the Philippines Office of the Solicitor General 134 Amorsolo St. Legaspi Village, Makati City

Technical Working Group for Information and Communications Technology

TERMS OF REFERENCE

Supply, Delivery, and Installation of Semi-Expendable Communication Equipment: Wi-Fi Enabled Voice over IP (VOIP) Phones

The Office of the Solicitor General (OSG) functions as the government's primary law office, tasked with representing the government, its agencies, and instrumentalities in many legal issues. Effective and efficient communication is essential to the OSG's activities, particularly due to its responsibility in collaborating with other governmental departments, courts, and other organizations.

The OSG is modernizing its infrastructure to improve efficiency and facilitate communication across its offices, making the use of Voice over IP (VoIP) technology a crucial element of its digital transformation strategy. VoIP technology provides a cost-efficient and adaptable alternative by facilitating telephony services via the internet, hence diminishing dependence on conventional telephone lines. The incorporation of Wi-Fi-enabled VoIP phones specifically fulfills the demand for enhanced mobility and flexibility in the workplace, enabling personnel to utilize communication services without being confined to a physical network.

Objective:

The primary objective of this project is to enhance the OSG's communication capabilities by adding new Wi-Fi-enabled VoIP phones to its existing infrastructure. These additional units will allow staff members to communicate more flexibly within the office, breaking free from the limitations of traditional wired phones. By utilizing VoIP technology, the OSG aims to improve connectivity, streamline internal communication, and support real-time collaboration across its departments, while reducing costs associated with legacy telephone systems.

The project also seeks to future-proof the OSG's communication infrastructure by enabling scalability and adaptability. With the introduction of these Wi-Fi-enabled devices, the OSG will be better equipped to support remote and hybrid work setups, ensuring seamless communication regardless of location. Ultimately, the goal is to create a more mobile and responsive work environment that enhances both productivity and efficiency within the OSG which redound to better public service.

Terms:

1. *Scope.* – Supply and Delivery of Wi-Fi Enabled Voice over IP (VOIP) Phones.

2. *ABC.* - The Approved Budget for the Contract (ABC) is **One Million and Four Hundred Thousand Pesos (₱1,400,000.00**), inclusive of all government taxes, charges, and other standard fees.

IC	FEQUIPME	ENT	
ITEM	QTY	UNIT COST	TOTAL
Supply and Delivery of Wi-Fi Enabled Voice over IP (VOIP) Phones	56	25,000	1,400,000
		TOTAL	₱ 1,400,000.00

3. *Payment.* - The supplier shall receive full payment, subject to applicable taxes and retention money (as warranty security), upon the issuance of the corresponding Certificate of Inspection and Acceptance by the OSG. All bid prices will be considered fixed and are not subject to price escalation during the contract implementation. Retention money or warranty security ensures that the delivered goods are free from manufacturing defects. The supplier may choose to provide an alternative form of warranty security instead of retention money, which will be valid and returned only after one year from the date of the Certificate of Inspection and Acceptance.

4. *Delivery*. - Delivery shall be within sixty (60) calendar days upon receipt of the Notice to Proceed. Delays in delivery shall be subject to a penalty equivalent to 1/10 of 1% of the cost of undelivered item/s for every day of delay.

- 5. *Qualifications of the Supplier*:
 - a. The Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's Consumer Price Index, must be equivalent to at least fifty percent (50%) of the ABC, completed within 5 years before the deadline for the submission and receipt of bids.

For this purpose, a similar contract shall refer to the procurement ICT equipment.

b. The bidder must present a Client Satisfaction Rating for at least five contracts within the past five (5) years with government agencies and/or private corporations with

whom the bidder has previous or ongoing contract/s similar to this project.

- c. The bidder shall submit a valid and current Certificate of Distributorship/Dealership/Resellership of the product being offered, issued by the principal or manufacturer of the product (if the bidder is not the manufacturer). If not issued by the manufacturer, they must also submit a certification/document linking the bidder to the manufacturer.
- d. The Bidder must be an Authorized Service Partner (ASP) of the brand being offered. A current valid manufacturer certificate is required as part of the technical component of the bid proposal.
- e. The bidder must attach a brochure of the brand being offered.
- f. The bidder must have a main office or satellite office in or around Metro Manila and/or nearby provinces.
- g. The bidder shall submit documents relevant to the project, such as but not limited to the following:
- Valid DTI or SEC Registration;
- Valid and Current Mayor's Permit/Municipal License;
- Valid and Current Business Permit;
- Tax Clearance Certificate as finally reviewed and approved by BIR;
- Statement of contracts completed which are similar in nature to the contract to be bid.
- Net Financial Contracting Capacity (NFCC) Computation

6. Applicable provisions of the Government Procurement Reform Act (RA No. 9184) and its Revised Implementing Rules and Regulations (RIRR) shall form part of the Terms of Reference (TOR).

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ITEM	SPECIFICATIONS	STATEMENT OF COMPLIANCE
Specific Requirer	nents for VOIP Phones	
	- Immediate replacement of the equipment and/or its parts	
Warranty and After-sales Requirements	- The winning Bidder shall replace a factory defective unit with a new unit within 30 days upon delivery of the item.	
	 In case of outside repair within the <u>one-year</u> warranty period, the winning Bidder shall provide a service unit having the same specifications to the OSG. 	
	 For the two immediately preceding items, the Bidder must submit Proof of Warranty as part of the technical component. 	

Technical Specifications:

	Specifications	Statement of Compliance
User Interface		
	At least a 5" color IPS LCD, 800 x 480 native resolution, and 9:16 aspect ratio	
	At least a light status indicator, RGB with color mixing	
	Can handle multiple calls using 12-line keys supporting up to 48 lines, features, and contacts and up to 34 SIP lines with pagination	
	At least two high-speed GigE PoE Ethernet ports for the LAN connection to an IP phone with a passthrough connection to your PC	
	Capable of reducing noise and distractions via AI and a virtual audio fence that blocks sounds from outside.	
	At least Unicode UTF 8-character support	
	At least an adjustable desk stand (2 positions)	
Wireless Technolog	y	
	At least Integrated Bluetooth 5.0	
	Wi-Fi network connectivity: 2.4- 2.4835GHz (802.11b, 802.11g, 802.11n HT-20) 5.15-5.825GHz (802.11a, 802.11n,	
	HT-20, 802.11n HT-40) Near Field Communication (NFC)	

IO Ports		
	At least 1 USB 2.0 Type-C (for media,	
	storage applications, headset, expansion	
	module)	
	2 RJ-45 (10/100/1000BASE-TX Mbps)	
Audio Features		
	HD Voice	
	With an acoustic fence technology or	
	similar that eliminates background noise	
	when using a handset or wired headset	
	and noise AI technology or similar that	
	removes most background noise when	
	using the speakerphone	
	TIA-920 wideband audio, type 1	
	compliant (IEEE 1329 full duplex)	
	Adaptive jitter buffers	
	Bass frequency enhancing design	
	Voice activity detection	
	Comfort noise generation	
	Individual volume settings with visual	
	feedback for each audio path	
	Low delay audio packet transmission	
	DTMF tone generation (RFC2833 and in-	
	band)	
Audio Codecs		
	At least G.711 (A-law and µ-law), G.722,	
	G.729AB, ILBC, OPUS, G.722.1	
Management Soft		
0	At least zero touch provisioning	
	With a cloud-based management tool	
	that simplifies monitoring, configuring,	
	and updating VoIP devices remotely,	
	ensuring streamlined management and	
	consistent performance across devices.	
	SDP (Session Description Protocol)	
Security Manager	nent	
	802.1X Authentication and EAPOL	
	Media encryption via SRTP	
	Digest authentication	
	Encrypted configuration files	
	HTTPS secure provisioning	
	Password login	
	Support for signed software executables	
	Support for URL syntax with password	
	Transport Laver Security (TLS)	
	Transport Layer Security (TLS) Wi-Fi encryption: WFP_WPA-Personal	
	Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with	

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	SRTP media encryption using AES 256	
0 1 11 11	bits	
Open Applicatio		
	Computer Audio Connector app	
	installed on PC (Windows only) which	
	enables selecting your phone for PC	
	audio in/out to use the phones handset,	
	optional headset and handsfree	
	speakerphone with PC applications	
	Supports Apps SDK and API for third-	
	party business and personal applications	
	Bundled with UC Software:	
	Corporate Directory Access using LDAP	
	Visual Conference Management	
Supported Netw		
	DHCP VLAN discovery	
	LLDP-MED for VLAN discovery	
	FTP/TFTP/HTTP/HTTPS server-based	
	central provisioning	
	Hardware diagnostics	
	Manual or dynamic host configuration	
	protocol (DHCP) network setup	
	Network address translation support for	
	static configuration and Keep-Alive	
	QoS Support – IEEE 802.1p/Q tagging	
	(VLAN), Layer 3 TOS, and DHCP	
	Status and statistics reporting	
	Syslog Event Logging	
	Conforms to IEEE802.3-2005 (Clause 40)	
	for physical media attachment	
	Conforms to IEEE802.3-2002 (Clause 28)	
	for link partner auto-negotiation	
	Time and date synchronization using	
	SNTP	
	RTCP and RTP support	
	IPv4	All and a second se
	īPv6	
	Provisioning and call server redundancy	
	support	
	DNS-SRV	
	UDP	
	SIP protocol support	
	A.A	
	IETF SIP (RFC3261 and companion RFCs)	
Headset Ports	KFCS)	
rieauset rons	At least 1 RJ-9	
	At least 1 Electronic Hook Switch (EHS)	
Handest so 11	port for optionalAPP-51 adapter	
neadset and han	adset compatibility	
	Bluetooth headset compatibility	
	Compatible with commercially available	
	TTY adapter equipment	

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	Compliant with ADA Section 508	
	Subpart B 1194.23 (all)	
	Hearing aid compatibility to ITU-TP.370	
	and TIA504A standards	
	Hearing aid compatible (HAC) handset	
	for magnetic coupling to hearing aids	
	USB Type-C headset support	
Telephony and call	handling features:	
	4 context-sensitive soft keys	
	4-way navigation key cluster with center	
	Select key	
	Corporate Directory Access using LDAP	
	Busy Lamp Field (BLF)	
	Call timer and call waiting	
	Call transfer, hold, divert (forward),	
	park, pickup	
	Called, calling, connected party	
	information	7
	Calling Party Identification (RFC8225	
	classifications – Trusted, Unknown,	
	SPAM)	
	Distinctive incoming call treatment/call	
	waiting	
	Do not disturb function	
	Electronic hook switch capable	
	Enhanced Feature Keys make powerful	
	feature shortcuts online key appearances	
	or soft keys	
	Headset select key (illuminated when	
	selected)	
	Hold and transfer keys	
	Home and back feature keys	
	Local three-way audio conferencing	
	Local configurable digit map/dial plan	
	Mute key (illuminated when muted)	
	One-touch speed dial, redial	
	Pagination key for additional	
	lines/contacts	
	Remote missed call notification	
	Reverse number lookup via LDAP	
	Shared call/bridged line appearance	
	Speakerphone select key (illuminated	
	when selected)	
	Supports SDK and API for third- party	
	business and personal application	
	Visual Conference Management	
	Voicemail key	
	Volume +/- control keys	
	Flexible line appearance (one or more-	
	line keys can be assigned for each line	
	extension)	
Power		

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	Built-in auto sensing IEEE 802.3af Power	
	over Ethernet Class 2, 5.0 W (Max)	
	External Universal AC/DC Adapter	
	(optional) 5VDC @ 3A (15W)	
	ENERGY STAR® rated	
Product Inclusion		
	Setup sheet	
	Network (LAN) cable-CAT-5E	
	Desk stand	
	Console	
	Handset	
	Handset cord	
	Power Supply with power cord	
	Antimicrobial protection	
Warranty Period	One (1) Year Warranty	
Delivery	Within sixty (60) days upon receipt of	
	Notice to Proceed	
Installation	Includes installation, configuration, and	
mounteron	setup	
	Includes product training and	
	demonstration on deployment,	
	configuration, administration,	
	maintenance, and basic troubleshooting	
Support Corrigo D		
Support Service R		
	The bidder must provide the following: * Unlimited corrective maintenance/	
	repair services within the warranty	
	period	
	* Eight (8) hours by five (5) days	
	(Monday to Friday, 8:00 AM - 5:00 PM)	
	technical support and must meet the	
	following response and resolution time:	
	> Within one (1) hour for phone or email support	
	 > Next business day on-site support > For onsite support, the winning 	
	bidder must attend to and repair the	
	defective unit within two (2) business	
	days	
	> In case of outside repair within the	
	1-year warranty period, the winning	
	bidder shall provide a service unit to the	
	OSG within three (3) days upon pull out	
	of the unit. The repaired hardware or	
	replacement for the pulled-out	
	hardware/unit must be delivered within	
	fifteen (15) calendar days from the	
	issuance of the service unit.	
	The bidder must provide full	
	documentation for the Activity Plan on	
	the installation of patches and upgrades	
	The instantion of Datches and upgrades	1

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and Root Cause Analysis of incidents	
encountered.	
The bidder must provide onsite support	
for the installation and deployment of	
software patches and version upgrades.	
The bidder must provide a procedure for	
support and problem escalation.	
* Submission of Activity/Service Report	
within 5 calendar days after rendering	
service	
The bidder must conduct system health	
checks every quarter with the following	
scope:	
 System/Application patches, fixes, 	
security patches, and alerts	
System/Application profile	
Resource utilization	
Log analysis	
Formal reports on the output of	21
conducted health checks within 5 days	
thereafter	

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Technical Working Group for ICT Equipment

ASG GILBERT U. MEDRANO
SSS CARLOS G. REYNES, JR.
PALT
DIR. EDUARDO ALEJANDRO O. SANTOS
- A
SS II OMAR T. GABRIELES
1
SS I PATRICK JOSEPH'S. TAPALES
AS III MARIVI A. TUMAMBING
MARIO
AS III GABRIEL ANITONIO D. ROBENIOL
A MAG
AS II INGRID MARGARET M. SERRANO
SAO JOY Y. CHUA
\square
ITO III JAYVIE NEH MALICK S. MALICDEM
NAMA CHIMAN
ITO III AMELITO-V. DUCUT
t al
COMPRO III AUGUSTUS MARK B. DICHOSO

Approved/Disapproved:

MENARDO I. GUEVARRA Solicitor General Certified Funds Available:

BERNADETTE M. LIM Dir IV - FMS