



Republic of the Philippines  
**INTER-COUNTRY ADOPTION BOARD**  
 Address: 4<sup>th</sup> Floor A.N.Y. Building, #38 Timog Avenue,  
 Brgy. Laging Handa, Quezon City, Metro-Manila  
 (632) 8726-4568; 8721-9711; (7)503-6226

### SUPPLEMENTAL BID BULLETIN NO. 001

March 2, 2021

This Supplemental Bid Bulletin No. 001 is issued to correct the Bidding Documents (BDs), Terms of Reference (TOR) and the date of submission of bidding documents made on the Invitation to Bid posted in the ICAB Website and Philgeps on January 29 to March 4, 2021 to wit:

**7437318: Layout of Structured Cables Including Equipment and Services with Data, Voice and CCTV (Closed-Circuit Television) Cameras for Ground Floor to Fifth Floor of ICAB Office**

Item No.	Description	Posted	Corrected
	<b>TITLE</b>	LAYOUT OF STRUCTURED CABLES INCLUDING EQUIPMENT AND SERVICES WITH DATA, VOICE AND CCTV CAMERA FOR GROUND TO FIFTH FLOOR OF ICAB OFFICE	LAYOUT OF STRUCTURED CABLES INCLUDING EQUIPMENT AND SERVICES WITH DATA, VOICE AND CCTV CAMERA FOR GROUND TO FIFTH FLOOR OF NEW ICAB OFFICE BUILDING
<b>NO. 7</b>	<b>ITB</b>	Bids must be duly received by the BAC Secretariat through manual submission at the office address Address: 4th Floor A.N.Y. Building, #38 Timog Avenue, Brgy. Laging Handa, Quezon City, Metro-Manila (632) 8726-4568; 8721-9711; (7)503-6226, on or before March 4, 2021; 8:00 am to 12:00pm. Late bids shall not be accepted.	Bids must be duly received by the BAC Secretariat through manual submission at the office address Address: 4th Floor A.N.Y. Building, #38 Timog Avenue, Brgy. Laging Handa, Quezon City, Metro-Manila (632) 8726-4568; 8721-9711; (7)503-6226, on or before April 30, 2021; 8:00 am to 1:00pm. Late bids shall not be accepted.
	Net Financial Contracting Capacity.	Bid opening shall be on March 4, 2021, 2:00pm at 2nd Floor Conference Room, A.N.Y. Building, #38 Timog Avenue, Brgy. Laging Handa, Quezon City, Metro-Manila. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. Likewise opening of Bids maybe viewed through video conferencing (Zoom link will be	Bid opening shall be on April 30, 2021, 2:00pm at 2nd Floor Conference Room, A.N.Y. Building, #38 Timog Avenue, Brgy. Laging Handa, Quezon City, Metro-Manila. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. Likewise opening of Bids maybe viewed through video conferencing (Zoom link will be

		provided on the date of opening of Bids).	provided on the date of opening of Bids).
	Distribution of Nodes	<p>Ground floor Data 21 Ground floor Voice 19 Ground floor AP 3</p> <p>2<sup>nd</sup> floor Data 19 2<sup>nd</sup> floor Voice 17 2<sup>nd</sup> floor AP 3</p> <p>3<sup>rd</sup> floor Data 26 3<sup>rd</sup> floor Voice 26 3<sup>rd</sup> floor AP 3</p> <p>4<sup>th</sup> floor Data 17 4<sup>th</sup> floor Voice 16 4<sup>th</sup> floor AP 3</p> <p>5<sup>th</sup> floor Data 9 5<sup>th</sup> floor Voice 9 5<sup>th</sup> floor AP 3</p>	<p>Ground floor Data 18 Ground floor Voice 4 Ground floor AP 3</p> <p>2<sup>nd</sup> floor Data 27 2<sup>nd</sup> floor Voice 12 2<sup>nd</sup> floor AP 3</p> <p>3<sup>rd</sup> floor Data 34 3<sup>rd</sup> floor Voice 24 3<sup>rd</sup> floor AP 3</p> <p>4<sup>th</sup> floor Data 30 4<sup>th</sup> floor Voice 10 4<sup>th</sup> floor AP 3</p> <p>5<sup>th</sup> floor Data 19 5<sup>th</sup> floor Voice 3 5<sup>th</sup> floor AP 3</p>
	Backbone	Copper backbone	SP shall provide and install 10Gbps multimode, connectivity between the core switch and distribution switch at the Server Room, Ground Floor and AHU Rooms of all respective floors.
	PABX Transfer to new building	Scope of work for PABX is not included on the bidding docs	Presently, the new ICAB 5-Storey Building is under construction and ICAB is renting its office located at ANY Building, No. 38 Timog Ave., Quezon City (TIMOG). Upon completion of the new building, SP shall transfer all existing equipment, telephone units, PABX, among others from TIMOG and re-install said equipment at the new building.

	<p>MDF and IDF RACK</p>	<p>The Service Provider shall provide and install network data cabinets /racks</p> <p>MDF RACK 42 RU, two (2) units 13.2 ,32 RU, one (1) unit</p>	<p>SP shall provide and install five (5) Half Rack 21U at the AHU rooms of each respective floors SP shall provide and install one (1) unit full height data cabinet at the Ground Floor, Server room.</p>
	<p><b>CORE SWITCH</b></p>	<p>Provide 24 10/100/1000BASE-T, 4 SFP combo, 4 1GbE unpopulated SFP upgradable to 10GbE SFP+</p> <p>Support external redundant power supply.</p> <p>The switch operating system must allow the upgrading of individual software modules and restart unresponsive process.</p> <p>The switch operating system must support self-healing process recovery via process restart.</p> <p>The switch operating system must support self-healing process recovery via process restart.</p> <p>Support Multi Chassis link aggregation group to address bandwidth limitations and improve network resiliency.</p> <p>Support Private VLAN, VLAN Translation.</p> <p>Support IP static routing, RIPv1/v2 routing features.</p> <p>Support following stacking mechanism</p> <p>a. Up to 8 switches in a stack</p> <p>b. Support stacking with 10GE switches</p>	<p>Must be designed with power-saving features including Energy Efficient Ethernet (IEEE 802.3az), which will reduce per port power consumption considerably when the link is idle, or if ports are inactive, as well as 80 PLUS certified power supplies and multi-speed fan operation, which together help decrease Cooling and power costs</p> <p>I/O Ports and slots: at least 16 open 10 GbE SFP+ transceiver slots; 24-ports Gig-T Module; 6 module slots.</p> <p>Power supplies: 2 Units power supplies required</p> <p>Performance: Throughput: &gt;570Mpps, Routing/Switching capacity: &gt;960 Gbps; Switch Fabric Speed: &gt;1,015 Gbps</p> <p>Warranty: Hardware: 3 years with Next Business Day replacement</p> <p>Software: 3 years</p> <p>Features: Support OpenFlow 1.0 and 1.3 or NETCONF or equivalent industry standard protocol for SDN.</p> <p>Quality of Service (QoS): Advanced classifier based QoS, Traffic Prioritization, Bandwidth shaping, Class of Service (CoS)</p> <p>Management: Remote intelligent mirroring, RMON, and sFlow v5 IEEE 802.1AB Link Layer Discovery Protocol (LLDP), Dual flash images</p>

		<p>c. n-1 master redundancy</p> <p>d. Distributed Layer 2 and Layer 3 switching</p> <p>e. 50 milliseconds failover.</p>	<p>Connectivity: IEEE 802.3az Energy Efficient Ethernet, jumbo frame Auto MDIX IPv6</p> <p>Resiliency and high availability: Virtual Router Redundancy Protocol (VRRP), Redundant management and power, IEEE 802.1s Multiple Spanning tree Protocol, IEEE 802.3ad Link Aggregation Control Protocol (LACP) and Port Trunking, Hot swappable modules</p>
	<p><b>Distribution Switch (24 Port POE)</b></p>	<p>Provide 24 10/100/1000BASE-T, 4 SFP combo, 4 1GbE unpopulated SFP upgradable to 10GbE SFP+</p> <p>Support external redundant power supply.</p> <p>The switch operating system must allow the upgrading of individual software modules and restart unresponsive process.</p> <p>The switch operating system must support self-healing process recovery via process restart.</p> <p>The switch operating system must support self-healing process recovery via process restart.</p> <p>Support Multi Chassis link aggregation group to address bandwidth limitations and improve network resiliency.</p> <p>Support Private VLAN, VLAN Translation.</p> <p>Support IP static routing, RIPv1/v2 routing features.</p> <p>Support following stacking mechanism</p> <p>a. Up to 8 switches in a stack</p> <p>b. Support stacking with 10GE switches</p>	<p>Ports 24 RJ-45 autosensing 10/100/1000 ports 4 SFP+ Ports, 1 Dual Personality serial Console port;</p> <p>Power Supply: &gt; 2 power supply required</p> <p>Performance: Throughput: &gt;112 Mpps, Switching capacity: &gt;176 Gbps Inclusive of SFP +/- 10GbE Transceiver</p> <p>Features:</p> <p>Support OpenFlow 1.0 and 1.3 or NETCONF or equivalent industry standard protocol for SDN.</p> <p>Quality of Service (QoS): L4 prioritization, Class of Service (CoS), Remote monitoring (RMON), and sFlow.</p> <p>Connectivity Auto-MDIX, IEEE 802.3 at Power over Ethernet (PoE+), IPV6 Routing.</p> <p>Convergence - IEEE 802.1AB Link Layer Discovery Protocol (LLD)</p> <p>Warranty:</p> <p>Hardware: Lifetime Warranty Next Business Day replacement</p> <p>Software: 3 years</p>

		<p>c. n-1 master redundancy</p> <p>d. Distributed Layer 2 and Layer 3 switching</p> <p>e. 50 milliseconds failover.</p>	
	<p><b>ACCESS SWITCHES</b></p>	<p>Provide 24 x 10/100/1000BASE-T access ports Full / Half-Duplex (auto-sensing) 4 x 1/2.5GBASE-X SFP uplink ports (unpopulated)</p> <p>Must offer system performance of at least 68 Gbps switch bandwidth and 50.6 Mpps for the 24-port 10/100/1000 switch model</p> <p>Must support up to four 1/2.5Gbps SFP uplink ports</p> <p>Must support 10/100/1000 Mbps access ports.</p> <p>Must support routing protocols including: static routes, RIPv2, RIPng</p> <p>Must have the ability to be managed in all of the following ways:</p> <p>Public Cloud (when vendor hosted)</p> <p>On-Premises (when customer hosted/on-premises)</p>	<p>Ports: 24 Rj-45 Autosensing 10/100/1000 ports: 4 Combo 10/100/1000BASE-T PoE+ or 100/1000Mbps SFP Ports; 1 Dual-personality (RJ-45 or USB micro-B) Serial console ports; 1 USB port for uploading/downloading files; 1 100BASE-T out of band Management port; 1 Uplink Slot; 1 Stacking Module Slot</p> <p>Power Supply: &gt;2 power supply required</p> <p>Performance: Throughput: &gt;112Mpps, Switching capacity: &gt;&gt;176 GBps</p> <p>Inclusive of one (1) unit 10GbE Transceiver for ICAB switches</p> <p>Supports PoE Features</p> <p>Features:</p> <p>Must support OpenFlow 1.0 and 1.3 or NETCONF or equivalent industry standard protocol for SDN</p> <p>Supports Quality of Service (QoS such as; Traffic prioritization, L4 prioritization, Class of Service (CoS), Rate limiting, and Large buffers</p> <p>Support Resiliency and high availability such as Multiple spanning tree protocol (LACP)</p> <p>Support SNMPv1, v2 and v3</p> <p>Supports multiple configuration files, Remote monitoring (RMON), and sFlow</p> <p>Warranty:</p> <p>Hardware: Lifetime Warranty with Next Business Day replacement</p>

			Software: 3 years
	<p align="center"><b>WIRELESS ACCESS POINTS</b></p>	<p>Access Points General Requirements</p> <p>Access Point must support 802.11a.b.g.n legacy networks</p> <p>Access Point must support 802.11ac Wave 2</p> <p>Access Point must provide up to 800 Mbps on 2.4GHz radio and up to 2166 Mbps on 5GHz radio</p> <p>Access Point Highlights</p> <p>Access points must have a console port for better troubleshooting via CLI command</p> <p>Access Point must support Stateful Firewall, IP filtering, NAT, 802.1x, 802.11i, WPA2, WPA</p> <p align="center">Access Point Highlights</p> <p>Access Point must have Virtual Controller function which allows itself to act as a virtual controller</p> <p>Access point must be capable to act as an RF domain manager and locally control APs at the site</p> <p>The AP can also distribute firmware updates and consolidate statistics from multiple APs to the NOC WLAN controller, substantially reducing WAN bandwidth</p>	<p>Interface: 1x 10/100/1000M self-adaptive Ethernet Interface (RJ-45), 1x 100/1000M/2.5G self-adaptive Ethernet Interface (RJ-45), 1x USB 2.0 Interface, 1x Serial console Interface (RJ-45)</p> <p>Support dual uplink aggregation to ensure redundancy and maximum network availability</p> <p>Power supply: support direct DC power source and Power over Ethernet (PoE)</p> <p>In compliance of 802.3af/802.3at</p> <p>Support PoE-out for IoT expansion (BLE, RFID and Zigbee)</p> <p>Compliance: Max data rate: &gt;2,400Mbps for 5GHz radio / &gt;300 Mbps for 2.4GHz radio;</p> <p>Maximum 512 associated client devices per radio &amp; &gt;16 BSSIDs per radio</p> <p>Features &amp; Specifications:</p> <p>Support triple-radio mode: dual 5GHz and one 2.4GHz for high-density access scenario at a rate up to 2.7Gbps</p> <p>Software Configuration radio support, 2.4G radio can be adjusted to 5G band</p> <p>RF Management automatically assigns channel and power settings, provides airtime fairness, and ensures AP stay clear of all source RF interference to deliver</p> <p>Security features such as integrated wireless intrusion protection, threat protection</p>

		<p>requirements</p> <p>Access Points WiNG OS</p> <p>Access Point must support</p> <p>Role-based firewall</p> <p>WIPS Security</p> <p>integrated RADIUS server</p> <p>integrated DHCP server</p> <p>Dynamic DNS support</p> <p>Other Eligibility</p> <p>Proposed brand must have a local depot</p> <p>Proposed brand must have NTC type approval certificate</p> <p>Proposed brand should be positioned in the LEADERS quadrant for 2019 and 2020 Gartner</p>	<p>and mitigation, and eliminates the need for separate RF sensors &amp; security appliances 802.11k and 802.11v Smart roaming</p> <p>AP License: The AP License shall be capable of AP management, performance management and RF management. All licenses (AP License and public cloud licenses) should be quoted for lifetime</p> <p>Warranty:</p> <p>Hardware: Lifetime Warranty with Next Business Day replacement</p> <p>Software: Lifetime</p>
	<p><b>Wireless Controller</b></p>	<p>Wireless Controller Requirements</p> <p>The Wireless Controller must support up to 512 Access Points on a Local Bridging</p> <p>Wireless Controller Guest Access Requirements</p> <p>The Wireless Controller must support up to 256 Access Points on an Extended VLAN</p> <p>The Wireless Controller must support up to 512 RF Domains</p> <p>The Wireless Controller must be 1U and Rack mountable</p> <p>The Wireless Controller must support 4GB RAM</p> <p>The Wireless Controller must support 32 GB solid-state drive for firmware image and critical data</p> <p>The Wireless Controller must support Two USB 2.0 interfaces</p>	<p>WLAN controller must be located at ICAB Data Center</p> <p>Ap capacity: The controller must be able to handle maximum 20 AP</p> <p>Wired throughput: The controller must have 2.0 Gbps</p> <p>VLAN support: The controller must support VLAN tagging with maximum of 4,094 VLANs</p> <p>Interfaces: The controller must have least 4 auto-negotiating 10/100/1000BASE-T ports and GE combo ports</p> <p>Gateway Features: The controller must support IPSec and GRE tunnels</p> <p>Support built-in Portal/AAA server function and can provide Portal/802.1X authentication for up to 1,280 users</p> <p>Integration with IDS/IPS function: The controller must support RF protection feature</p> <p>Common Features: The controller must have common features like: Guest Portal, AP Provision, Group Manage</p>

		The Wireless Controller must support RS-232 serial console (RJ-45) interface.	Controller Architecture: The controller can be deployed via following architecture: Standalone – This controller operates independently within the network to manage Aps in this bid document. Public cloud integrate – This controller could be able to integrate with the public platform to provide simplified O&M and Value-added Services
	<b>CCTV SURVEILLANCE SYSTEM</b> SCOPE OF WORK	The entire IP surveillance system is designed to control and monitor the different blocks of the ICAB building.	Scope of work includes but is not limited to installation only. It covers design, supply, installation, implementation, commissioning, training, providing user manual, providing warranty for the total solution including all hardware, software, materials, services and support, etc. Work also includes all related work at controlling office at all the Locations. All necessary cabling/wiring/sockets and allied infrastructure conforming to respective quality/standard norms are also included.
	UTM FIREWALL	The Service Provider shall provide one (1) unit UTM Firewall and its licenses	Removed
<b>ITB (7)</b>	Deadline of submission	<b>March 12, 2021, 8:00 am to 12:00 pm</b>	<b>April 30, 2021, 8:00 am to 1:00pm</b>
<b>ITB (7)</b>	Opening of BIDS	<b>March 4, 2021</b>	<b>April 30, 2021 2:00pm to 4:00pm</b>
<b>No. 15</b>	Section II. Instructions to Bidders	Each Bidder shall submit one copy of the first and second components of its Bid	Each Bidder shall submit one set of Original copy and two photo copies of the first and second components of its Bid.



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Attached with this bulletin is the updated TOR and BID DOCS.

This Bid Bulletin shall form an integral part of the said Bidding Documents.

For the guidance and information of all concerned.

**GINA C. ESCALANTE**  
BAC-Chairman