



REPUBLIC OF THE PHILIPPINES  
**PRESIDENTIAL COMMUNICATIONS OPERATIONS OFFICE**  
*Tanggapang Pampanguluhan sa Operasyong Komunikasyon*  
*Ermita, City of Manila*

**SUPPLEMENTAL BID BULLETIN NO. 1**  
**16 March 2022**

**Supply and Delivery of ICT Equipment and Software Applications (2 Lots)**  
(Procurement/Contract Nos. 2022-PCOO-I-029A & 2022-PCOO-I-029B)

Anent the Pre-Bid Conference held on 16 March 2022 for the above-cited procurement, please be informed of the following clarifications made and the amendments on the following:

- A. Technical Specifications; and
- B. Schedule of Requirements.

All amendments are indicated in **red**.

<b>COMMENT/ CLARIFICATION</b>	<b>ANSWER/RESPONSE</b>
Whether the PCOO will consider revising the specifications for Item No. 3 (High-end Desktop), since the corresponding IT products/models that can comply with the set requirements are already phase out or no longer available in the market.	Yes. Please refer to the revised Technical Specifications below.
Whether the delivery schedule may be changed from 45 calendar days to 90 calendar days.	Yes. Please refer to the revised Schedule of Requirements.

x-----x

## Technical Specifications

Bidders must state “**Comply**” in the column “**Statement of Compliance**” against each of the individual parameters of each “Specifications.”

<b>Lot 1 – ICT Equipment and Software Applications</b>				
<b>Item No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Actual Brand/Model being Offered</b>	<b>Statement of Compliance</b>
<b>1</b>	<p><b>Server Hardware</b></p> <p>At least (2.1GHz/8-core/85W) 16.5 MB L3 Cache            At least 128GB (8x 16GB) 1Rx4 16 GB DDR4 SDRAM, Memory voltage: 1.20 V, Memory Speed: 2933 MHz            NOTE: Runs at 2400 MT/s due to processor limitation.            At least 12 DIMM slots per processor, 6 channels per processor            At least Embedded 2-Port 1GbE            At least 2 x 1TB SAS 12G Midline 7.2K SFF (2.5in)            At least 8 SFF HDD Bays            At least 2 PCIe: 1 x16 FH / 1 x8 LP            At least 2x 500W Hot Plug; RPS ready            At least 3- Standard Fans            At least 5 total: 1 front, 2 rear, 2 internal (standard on all chassis types)            Remote server management processor embedded on the system boards            At least 1U Rack mounted            Warranty: At least-Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response</p>	<b>2</b>		
<b>2</b>	<p><b>High-end desktop</b></p> <p>At least 8-core CPU with 4 performance cores and 4 efficiency cores            16-core Neural Engine            Storage: At least :256GB SSD            Configurable to: 512GB, 1TB, or 2TB            Memory: At least 8GB            Display: At least 24-inch 4.5K Retina, At least 4480-by-2520 resolution at 218 pixels per inch with support for 1 billion colors, At least Actual diagonal screen size is 23.5 in            Camera: At least 1080p HD camera            Video Support: At least Simultaneously supports full native resolution on the built-in display at 1 billion colors and: At least one external display with up to 6K resolution at 60Hz            At least Thunderbolt 3 digital video output or equivalent            At least Native DisplayPort output over USB-C            Audio: High-fidelity six-speaker system with force-cancelling woofers            Wide stereo sound: At least Support for spatial audio when playing music or video with Dolby Atmos 3 or equivalent            Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming            Connections and Expansion            At least Two Thunderbolt or equivalent / USB 4 ports with support for: DisplayPort, Thunderbolt 3 or equivalent (up to 40Gb/s), USB 4 (up to 40Gb/s), USB 3.1 Gen 2 (up to 10Gb/s)            At least Gigabit Ethernet            At least Two USB 3 ports (up to 10Gb/s)            Input: Keyboard, Mouse            Wi-Fi: At least 802.11ax Wi-Fi 6 wireless networking IEEE 802.11a/b/g/n/ac compatible            Bluetooth: Bluetooth 5.0 wireless technology            Operating System: Latest Licensed operating system 64 bit            Warranty: At least 1-year warranty, including technical support and hardware replacement services.</p>	<b>13</b>		

<p><b>3</b></p>	<p><b>High-end desktop</b></p> <p>Display:                  At least 24-inch 4.5K display, At least 4480-by-2520 resolution at 218 pixels per inch with support for 1 billion colors 500 nits brightness                  Processor: At least 8-core CPU with 4 performance cores and 4 efficiency cores, 8-core GPU, and 16-core Neural Engine                  Memory: At least 16GB memory                  Storage: At least 1TB SSD storage                  Camera: At least 1080p HD camera                  Video Support: At least Simultaneously supports full native resolution on the built-in display at 1 billion colors                  Connections and Expansion: At least Two Thunderbolt or equivalent / USB 4 ports with support:                  DisplayPort                  Thunderbolt 3 or equivalent (up to 40 Gbps)                  USB 4 (up to 40 Gbps)                  USB 3.1 Gen 2 (up to 10 Gbps)                  Thunderbolt 2 or equivalent, HDMI, DVI, and VGA supported using adapters (sold separately)                  Audio:                  High-fidelity six-speaker system with force-cancelling woofers                  Wide stereo sound                  Support for spatial audio when playing video with Dolby Atmos or equivalent                  Support for spatial audio when playing music or video with Dolby Atmos or equivalent                  Studio-quality three-mic icon Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming                  3.5mm headphone jack                  Gigabit Ethernet                  Input: Keyboard, Mouse                  Wi-Fi: At least 802.11ac Wi-Fi wireless networking, IEEE 802.11a/b/g/n compatible                  Bluetooth: Bluetooth 5.0 wireless technology                  Operating System: Latest Licensed - operating system 64 bit                  Warranty: At least 1-year warranty, including technical support and hardware replacement services.</p>	<p><b>1</b></p>		
<p><b>4</b></p>	<p><b>Mid-range desktop</b></p> <p>At least 6 cores                  At least 2.6 GHz (12M Cache, up to 4.4GHz                  RAM: At least 8GB DDR4                  Storage: At least 1TB HDD, At least 256GB M.2 SSD                  Graphics: shared                  Display Screen: At least 21.5",                  Resolution: At least 1920 x 1080 pixel                  Network Interface: At least Gigabit Ethernet 10/100/1000                  Wireless Lan: At least 802.11 AC                  Back:                  HDMI or VGA port: At least 1                  Audio jacks: At least 2                  USB 2.0: At least 2                  USB 3.2: At least 2                  Front:                  USB 2.0: At least 2                  USB 3.2: At least 2                  Monitor: At least 21.5 inches                  Keyboard and mouse                  Operating System: Latest Licensed professional operating system 64 bit                  Warranty: at least 1 year warranty - includes 1-Year Parts, 1-Year Labor.</p>	<p><b>21</b></p>		

<p><b>5</b></p>	<p><b>High-end Laptop</b></p> <p>At least 8 core CPU, 8 core GPU                  At least 16GB memory                  At least 512GB SSD storage                  At least 13.3-inch (diagonal) LED-backlit display with IPS technology; 2560x1600 native resolution at 227 pixels per inch with support for millions of colours                  Supported scaled resolutions:1680x1050, 1440x900, 1024x640. At least 500 nits brightness, At least Wide colour (P3)                  Video Support: Simultaneously supports full native resolution on the built-in display at millions of colours and: One external display with up to 6K resolution at 60Hz, Thunderbolt 3 or equivalent digital video output, Native DisplayPort output over USB-C, VGA, HDMI, DVI and Thunderbolt 2 or equivalent output supported using adapters (sold separately).                  With Keyboard and Track-pad                  Two Thunderbolt or equivalent / USB 4 ports with support for: Charging, DisplayPort, Thunderbolt 3 or equivalent (up to 40 Gbps), USB 4 (up to 40 Gbps), USB 3.1 Gen 2 (up to 10 Gbps)                  Battery and Power: Up to 17 hours wireless web, Up to 20 hours TV app movie playback. At least Built-in 58.2-watt-hour lithium-polymer battery, At least 61W USB-C Power Adapter.                  Wi-Fi: At least 802.11ax Wi-Fi 6 wireless networking, IEEE 802.11a/b/g/n/ac compatible                  Bluetooth: At least Bluetooth 5.0 wireless technology                  Camera: 720p HD camera                  Audio: Stereo speakers with high dynamic range, Wide stereo sound, Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming, 3.5mm headphone jack.                  Operating System: Latest Licensed operating system 64 bit                  At least 1-year warranty, including technical support and hardware replacement services.</p>	<p><b>5</b></p>		
<p><b>6</b></p>	<p><b>High-end Laptop</b></p> <p>At least 8 core CPU, 8 core GPU                  At least 8GB memory                  At least 256GB SSD storage                  At least 13.3-inch (diagonal) LED-backlit display with IPS technology; 2560x1600 native resolution at 227 pixels per inch with support for millions of colours                  Supported scaled resolutions:1680x1050, 1440x900, 1024x640. At least 500 nits brightness, At least Wide colour (P3)                  Video Support: Simultaneously supports full native resolution on the built-in display at millions of colours and: One external display with up to 6K resolution at 60Hz, Thunderbolt 3 or equivalent digital video output, Native DisplayPort output over USB-C, VGA, HDMI, DVI and Thunderbolt 2 or equivalent output supported using adapters                  With Keyboard and Track-pad                  Two Thunderbolt or equivalent / USB 4 ports with support for: Charging, DisplayPort, Thunderbolt 3 or equivalent (up to 40 Gbps), USB 4 (up to 40 Gbps), USB 3.1 Gen 2 (up to 10 Gbps)                  Battery and Power: Up to 17 hours wireless web, up to 20 hours TV app movie playback. At least Built-in 58.2-watt-hour lithium-polymer battery, at least 61W USB-C Power Adapter.                  Wi-Fi: At least 802.11ax Wi-Fi 6 wireless networking, IEEE 802.11a/b/g/n/ac compatible                  Bluetooth: At least Bluetooth 5.0 wireless technology                  Camera: 720p HD camera                  Audio: Stereo speakers with high dynamic range, Wide stereo sound, Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming, 3.5mm headphone jack.                  Operating System: Latest Licensed operating system 64 bit                  Warranty: At least 1-year warranty, including technical support and hardware replacement services.</p>	<p><b>23</b></p>		

<p><b>7</b></p>	<p><b>High-end Laptop</b>                  At least 10-core CPU, 16-core GPU                  At least 16GB memory                  At least 512GB SSD storage                  Display: Liquid XDR display, At least 16.2-inch (diagonal) Liquid XDR display; At least 1 3456-by-2234 native resolution at 254 pixels per inch, At least XDR (Extreme Dynamic Range), Up to 1000 nits sustained (full-screen) brightness, At least 1600 nits peak brightness, At least 1,000,000:1 contrast ratio                  Color: At least 1 billion colors, Wide color (P3)                  Refresh rates: At least With technology for adaptive refresh rates up to 120Hz, At least Fixed refresh rates: 47.95Hz, 48.00Hz, 50.00Hz, 59.94Hz, 60.00Hz                  Battery and Power: Up to 21 hours TV app movie playback, Up to 14 hours wireless web, At least 100-watt-hour lithium-polymer battery, At least 140W USB-C Power Adapter, Fast-charge capable with included 140W USB-C Power Adapter.                  Charging and Expansion: SDXC card slot, HDMI port, 3.5 mm headphone jack, Three Thunderbolt 4 or equivalent (USB-C) ports with support for: Charging, DisplayPort, Thunderbolt 4 or equivalent (up to 40Gb/s), USB 4 (up to 40Gb/s)                  With Keyboard and Trackpad                  Wi-Fi: At least 802.11ax Wi-Fi 6 wireless networking IEEE 802.11a/b/g/n/ac compatible                  Bluetooth: At least Bluetooth 5.0 wireless technology                  Camera: At least 1080p HD camera and Advanced image signal processor with computational video.                  Audio: High-fidelity six-speaker sound system with force-cancelling woofers, Wide stereo sound, Support for spatial audio when playing music or video with built-in speakers, Spatial audio with dynamic head tracking when using wireless Bluetooth earphones/headset. Studio-quality three-mic array with high signal-to-noise ratio and directional beamforming, 3.5 mm headphone jack with advanced support for high-impedance headphones.                  Operating System: Latest Licensed operating system 64 bit                  Warranty: At least 1-year warranty, including technical support and hardware replacement services.</p>	<p><b>3</b></p>		
<p><b>8</b></p>	<p><b>Low-end Laptop</b>                  Display: At least 13.3-inch (diagonal) LED-backlit display with IPS technology; At least 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors                  Supported scaled resolutions: 1680 by 1050, 1440 by 900, 1024 by 640, 400 nits brightness, Wide color(P3)                  At least 8-core CPU with 4 performance cores and 4 efficiency cores                  At least 7-core GPU, 8-core GPU                  Battery: Up to 15 hours wireless web, up to 18 hours TV app movie playback                  Built-in 49.9-watt-hour lithium-polymer battery                  At least 30W USB-C Power Adapter                  Charging and Expansion:                  Two Thunderbolt or equivalent/ USB 4 ports with support for: Charging, DisplayPort, Thunderbolt 3 or equivalent (up to 40Gb/s)                  USB 4 (up to 40Gb/s), USB 3.1 Gen 2 (up to 10Gb/s)                  Memory: At least 8GB unified memory                  Storage: At least 512GB SSD Storage                  With Keyboard and Track-pad                  Wi-Fi: At least 802.11ax Wi-Fi 6 wireless networking IEEE 802.11a/b/g/n/ac compatible                  Bluetooth: At least Bluetooth 5.0 wireless technology                  Camera: At least 720p HD camera                  Video Support: Simultaneously supports full native resolution on the built-in display at millions of colors and: One external display with up to 6K resolution at 60Hz                  Audio: Stereo speakers, Wide stereo sound, Three-mic array with directional beamforming, 3.5 mm headphone jack. Operating System: Latest Licensed operating system 64 bit                  Warranty: At least 1-year warranty, including technical support and hardware replacement services.</p>	<p><b>1</b></p>		

<p><b>9</b></p>	<p><b>Uninterruptible Power Supply (UPS)</b></p> <p>Output Power Capacity: At least 325 Watts / 625 VA          35          Max Configurable Power: At least 325 Watts / 0 VA          Nominal Output Voltage: At least 230V          Nominal Input Voltage: At least 230V          Input Frequency: At least 45 - 65 Hz          Input voltage range for main operations: At least 151 - 299V          Battery Type Maintenance-free sealed Lead-Acid battery          Typical recharge time At least 6 hours          Warranty: At least 1 year - Warranty includes 1-Year Parts, 1-Year Labor.</p>	<p><b>120</b></p>		
<p><b>10</b></p>	<p><b>Network Attached Storage (NAS)</b></p> <p>CPU Architecture: At least 64-bit          CPU Frequency: At least 4-core 2.2 GHz          System Memory: At least 32 GB DDR4 ECC SODIMM          Total Memory Slots: At least 2          Maximum Memory Capacity: At least 32 GB (16 GB x 2)          Hard disk drive: 3 pcs 12TB HDD, At least 3.5" SATA 6 Gb/s, Sector Size: At least 512e, Rotational Speed: At least 7,200 rpm, Interface Speed: At least 6.0 Gb/s, 3.0 Gb/s, 1.5 Gb/s, Buffer Size: At least 256 MiB, HDD Warranty: At least 5 Years          Drive Bays: At least 8          Compatible Drive Type: 3.5" SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD, M.2 2280 NVMe SSD          Hot Swappable Drive          External Ports: RJ-45 1GbE LAN Port: At least 4 (with Link Aggregation / Failover support)          USB port: At least 3          eSATA Port: At least 2          PCIe Expansion: At least 1          File System:          Internal Drives: At least support Btrfs,EXT4          External Drives: At least support: Btrfs, EXT4,EXT3,FAT,NTFS,HFS+,exFAT.          Warranty: At least 3-year limited warranty, including technical support and hardware replacement services. HDD At least 5 years warranty.</p>	<p><b>3</b></p>		
<p><b>11</b></p>	<p><b>Projector</b></p> <p>At least Dual HDMI inputs for multiplatform digital connectivity          At least 4000 ANSI Lumen High Brightness for Stunning Presentations          At least 20,000:1 High Native Contrast for Crisp Readability          At least 1.1x Zoom Ratio for High Setup Flexibility          Display:          Projection System: At least DLP Single          DMD type: At least 0.55" XGA          Native Resolution: At least 1024 x 768 pixels          Brightness: At least 4000 ANSI Lumens          Contrast Ratio: At least 20,000 : 1          Display Color: At least 30 Bits/1.07 Billion Colors          Aspect Ratio: At least Native 4:3 (5 aspect ratio selectable)          Light Source: At least Lamp          Light Source life: At least Normal 6000 hr Economic, 10000 hr, SmartEco 10000 hr, LampSave 15000hr          Throw Ratio: At least 1.96~2.15          Zoom Ratio: At least 1.1x          Keystone Correction: At least Auto ID, Vertical +/- 40 degrees          Projection Offset: At least 110.0%          Projection Size: At least 30"~300"          Built-in Speaker: At least 10Wx1          Warranty: At least 1 year Warranty - includes 1-Year Parts, 1-Year Labor.</p>	<p><b>7</b></p>		
<p><b>12</b></p>	<p><b>Licensed Software Applications</b></p> <p>Latest Software Suite (Word processing, spreadsheet &amp; slides presentation) for Business, perpetual-license, without annual fee subscriptions, Online download installer with CD key.</p>	<p><b>85</b></p>		

<b>Lot 2 – Social Media Listening Tool</b>				
<b>Item No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Actual Brand/Model/ Application being Offered</b>	<b>Statement of Compliance</b>
<b>1</b>	At least five (5) user login (simultaneous login) Must support unlimited searches and results from news sources and social media platforms (broadcast, print, radio, and social media, blogs, and other websites) in English and Filipino language (inclusion of other local Filipino dialects are optional) Must support Research & Monitoring of Consumer Sentiment Must support Consumer Segmentation for Market Research Must have Metrics measurement (e.g. social reach, top location, sentiments, trending themes) Ability to upload contacts Ability to email and archive press releases and media advisories Must support Data Export (e.g. PDF, HTML) Must be compatible with latest OSX and Windows Operating Systems	<b>1</b>		

Conforme:

- For Lot 1 only
- For Lot 2 only
- For both lots

Name of Bidder : \_\_\_\_\_  
 Designation : \_\_\_\_\_  
 Name of Company : \_\_\_\_\_

## Schedule of Requirements

The delivery schedule expressed as calendar days stipulates hereafter a delivery date which is the date of delivery to the project site.

<b>Lot 1 – ICT Equipment and Software Applications</b>			
<b>Item No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Delivery Schedule</b>
<b>1</b>	<b>Server Hardware</b> (Details in Sec. VII. Technical Specifications)	<b>2</b>	Delivered and completely installed within <b>ninety (90) calendar days</b> from the receipt of the Notice to Proceed
<b>2</b>	<b>High-end desktop</b> (Details in Sec. VII. Technical Specifications)	<b>13</b>	
<b>3</b>	<b>High-end Desktop</b> (Details in Sec. VII. Technical Specifications)	<b>1</b>	
<b>4</b>	<b>Mid-range desktop</b> (Details in Sec. VII. Technical Specifications)	<b>21</b>	
<b>5</b>	<b>High-end Laptop</b> (Details in Sec. VII. Technical Specifications)	<b>5</b>	
<b>6</b>	<b>High-end Laptop</b> (Details in Sec. VII. Technical Specifications)	<b>23</b>	
<b>7</b>	<b>High-end Laptop</b> (Details in Sec. VII. Technical Specifications)	<b>3</b>	
<b>8</b>	<b>Low-end Laptop</b> (Details in Sec. VII. Technical Specifications)	<b>1</b>	
<b>9</b>	<b>Uninterruptible Power Supply (UPS)</b> (Details in Sec. VII. Technical Specifications)	<b>120</b>	
<b>10</b>	<b>Network Attached Storage (NAS)</b> (Details in Sec. VII. Technical Specifications)	<b>3</b>	
<b>11</b>	<b>Projector</b> (Details in Sec. VII. Technical Specifications)	<b>7</b>	
<b>12</b>	<b>Licensed Software Applications</b> (Details in Sec. VII. Technical Specifications)	<b>85</b>	
<b>Lot 2 – Social Media Listening Tool</b>			
<b>Item No.</b>	<b>Description</b>	<b>Qty.</b>	<b>Delivery Schedule</b>
<b>1</b>	<b>Social Media Listening Tool</b> (Details in Sec. VII. Technical Specifications)	<b>1</b>	Delivered and completely installed within forty-five (45) calendar days from the receipt of the Notice to Proceed

Conforme:

- For Lot 1 only
- For Lot 2 only
- For both lots

Name of Bidder : \_\_\_\_\_  
 Designation : \_\_\_\_\_  
 Name of Company : \_\_\_\_\_



Pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, this Supplemental/Bid Bulletin is issued for the information and guidance of all prospective bidders and shall form an integral part of the Bidding Documents issued for said the project.

Should you have further concerns, you may contact the BAC Secretariat through the details below:

**Atty. MARK WAYNE E. EUBANK**  
**Head, Bids and Awards Committee Secretariat**  
Presidential Communications Operations Office  
7<sup>th</sup> Floor, Times Plaza, UN Avenue Manila  
Telefax No: (+632) 935-248-1213  
Email: bac1@pco.gov.ph  
Website: <https://pcoo.gov.ph>

For information and guidance.

*Original Signed*  
**Usec. OMAR V. ROMERO**  
Chairperson, Bids and Awards Committee

### CERTIFICATION

The revisions in the Technical Specifications and Schedule of Requirements for this project are hereby approved by the End-User Unit representative.

*Original Signed*  
**DOPHINE MICHELLE V. BRITANICO**  
*End-user Unit representative*

Prepared by:  <i>Original Signed</i> <b>JOY MARIE P. PALOMA</b> BAC Secretariat/ SAO, Procurement Division	Reviewed by:  <i>Original Signed</i> <b>JAYSON ERQUIZA</b> BAC Secretariat/ CAO, Procurement Division	Approved for release by:  <i>Original Signed</i> <b>ATTY. MARK WAYNE E. EUBANK</b> Head, BAC Secretariat/Focal for Procurement Division
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