



## BID BULLETIN

PhilGEPS Reference No.: 12829813

Purchase Request No.: PR 26-02-065 A

Project Name: **ADOPTION OF DIGITAL LEARNING PLATFORM THROUGH ICT MODERNIZATION (WEB SECURITY WITH LOAD BALANCING)**

Date: May 4, 2026

The Bid Bulletin is issued to modify or amend items in the Invitation to Bid (ITB) and Philippine Bidding Documents (PBD's)

### A. CHANGES/CLARIFICATIONS:

ITEM	From	To
<b>B. HYPERCONVERGED INFRASTRUCTURE (HCI) Application Server</b>	<p><b>Application Server &amp; Data Nodes</b></p> <ul style="list-style-type: none"> <li>- Designed for hyper-converged infrastructure (HCI) with software-defined storage (SDS)</li> <li>- Two (2) Sets Application Server</li> <li>- Two (2) Sets Data Nodes</li> </ul> <p><b>Storage Network</b></p> <ul style="list-style-type: none"> <li>- vSAN Node (for software-defined storage)</li> <li>- Firmware Lock: E660/F/N, P670F/N, V670F, S670</li> <li>- Preinstalled Software: at least Version 7.0.450</li> <li>- No Transformational License Agreement (TLA)</li> </ul> <p><b>Chassis &amp; Form Factor</b></p> <ul style="list-style-type: none"> <li>- 2.5" Chassis with up to 10 NVMe drives</li> <li>- 3 PCIe Slots (expandable for network/storage add-ons)</li> <li>- 1U Bezel V2 (for rack-mounted servers)</li> </ul>	<p><b>Application Server &amp; Data Nodes</b></p> <ul style="list-style-type: none"> <li>- Designed for hyper-converged infrastructure (HCI) with software-defined storage (SDS)</li> <li>- Two (2) Sets Application Server</li> <li>- Two (2) Sets Data Nodes</li> </ul> <p><b>Storage Network</b></p> <ul style="list-style-type: none"> <li>- HCI-capable node supporting software-defined storage (e.g., vSAN, Azure Stack HCI, Nutanix or equivalent) <i>Note: Equivalent solutions must demonstrate compliance with enterprise-grade HCI requirements, including high availability, distributed storage architecture, centralized management, scalability, and vendor-supported deployment with SLA-backed support.</i></li> <li>- Firmware must be vendor-supported, secure, and upgradable</li> <li>- Preinstalled or compatible with HCI software version 7.0 or higher (or equivalent)</li> <li>- No Transformational License Agreement (TLA)</li> </ul> <p><b>Chassis &amp; Form Factor</b></p> <ul style="list-style-type: none"> <li>- 2.5" Chassis with at least 8 NVMe drives</li> <li>- Minimum 3 PCIe slots (Gen3 or higher) for expansion</li> </ul>



	<ul style="list-style-type: none"> <li>- ReadyRails Sliding Rails (without cable management arm or strain relief bar)</li> <li>- No GPU Enablement</li> <li>- UEFI BIOS Boot Mode with GPT Partition</li> </ul> <p><b>Two (2) Processors (CPU):</b>  <i>(Specifications per CPU)</i></p> <ul style="list-style-type: none"> <li>- Base Clock: at least 2.8GHz</li> <li>- Turbo Boost Speed: Up to 3.6 GHz <i>(or higher)</i></li> <li>- Cores/Threads: at least 24 Cores/ 48 Threads</li> <li>- Cache: at least 36M L3</li> <li>- Max Turbo Frequency enabled</li> <li>- Hyper-Threading (HT)</li> <li>- TDP: 230W</li> <li>- Memory Speed: DDR4-3200 MT/s</li> </ul> <p><b>Memory (RAM)</b></p> <ul style="list-style-type: none"> <li>- At least 64GB RDIMM, DDR4-3200, Dual Rank, 16Gb</li> <li>- Supports 3200MT/s RDIMMs</li> <li>- HCI System Software Memory: 64GB</li> </ul> <p>Expandable for higher capacity</p> <p><b>Storage 1</b></p> <ul style="list-style-type: none"> <li>- At least 400GB NVMe SSD (3D Xpoint memory)</li> <li>- Type: Enterprise-Grade</li> <li>- Interface: U.2 NVMe Gen4</li> <li>- Usage: Write-intensive operations</li> <li>- With carrier</li> </ul> <p><b>Storage 2</b></p> <ul style="list-style-type: none"> <li>- At least 7 TB NVMe SSD (3D NAND technology)</li> <li>- Type: Enterprise-Grade</li> <li>- Interface: U.2 NVMe Gen4</li> <li>- Usage: Read-intensive workloads</li> <li>With carrier</li> </ul>	<ul style="list-style-type: none"> <li>- Rack-mounted server (1U or 2U form factor)</li> <li>- Includes sliding rack rails</li> <li>- No GPU Enablement</li> <li>UEFI BIOS Boot Mode with GPT Partition support</li> </ul> <p><b>Two (2) Processors (CPU):</b>  <i>(Specifications per CPU)</i></p> <ul style="list-style-type: none"> <li>- Base Clock: at least 2.4GHz</li> <li>- Turbo Boost Speed: at least 3.6 <i>(or higher)</i></li> <li>- Cores/Threads: at least 24 Cores/ 48 Threads</li> <li>- Cache: at least 36MB L3 <i>(or higher)</i></li> <li>- Max Turbo Frequency enabled</li> <li>- Hyper-Threading (HT)</li> <li>- TDP: <b>≤ 270 W</b></li> <li>- Memory Speed: <b>DDR4 or DDR5, ≥ 3200 MT/s</b></li> </ul> <p><b>Memory (RAM)</b></p> <ul style="list-style-type: none"> <li>- At least <b>64GB RDIMM</b>, server-grade, ECC</li> <li>- Memory Type: <b>DDR4 or DDR5</b></li> <li>- Speed: <b>≥ 3200 MT/s</b></li> <li>- Dual Rank or equivalent</li> <li>- Must support expansion to higher capacity</li> </ul> <p><b>Storage 1 (Cache Tier)</b></p> <ul style="list-style-type: none"> <li>- At least 1.6TB NVMe SSD</li> <li>- Type: Enterprise-grade</li> <li>- Interface: U.2/U.3 NVMe (PCIe Gen3 or Gen4)</li> <li>- Usage: Write-intensive operations (cache tier)</li> <li>- With carrier or tray compatible with chassis</li> </ul> <p><b>Storage 2 (Capacity Tier)</b></p> <ul style="list-style-type: none"> <li>- <b>At least 7TB NVMe SSD (NVMe or equivalent high-performance SSD)</b></li> <li>- Type: Enterprise-grade</li> <li>- <b>Interface: U.2/U.3 NVMe (PCIe Gen3 or Gen4)</b></li> <li>- Usage: Read-intensive workloads (capacity tier)</li> </ul> <p>With carrier or tray compatible with chassis</p>
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	<p><b>Storage Boot &amp; RAID Configuration</b></p> <ul style="list-style-type: none"> <li>- BOSS-S2 Controller</li> <li>- Dual M.2 480GB SSDs (Configured in RAID 1 for redundancy)</li> <li>- Dedicated OS storage to separate boot operations from main storage</li> </ul> <p><b>Backplane:</b>NVMe Backplane (Supports up to 10x 2.5" NVMe SSDs)</p> <p><b>Storage Software</b></p> <ul style="list-style-type: none"> <li>- HCI System Software (Capacity Drive, 7.68TB)</li> <li>- No RAID Controller for NVMe chassis (C36 configuration)</li> </ul> <p><b>Network Interface Card (NIC):</b></p> <ul style="list-style-type: none"> <li>- Dual Port 10/25GbE SFP28</li> <li>- Supports high-speed networking (10GbE/25GbE)</li> <li>- Interface: PCIe 3.0/4.0 x 16</li> </ul> <p><b>Ethernet Controller:</b></p> <ul style="list-style-type: none"> <li>- Dual Port 1Gb On-Board LOM</li> <li>- Speed: Up to 1Gbps (1000BASE-T) per port</li> <li>- Interface: PCIe 2.0 x 4</li> <li>- Network Standard: IEEE 802.3 (10BASE-T, 100BASE-TX, 1000BASE-T)</li> </ul> <p><b>Remote Access Controller (Enterprise Edition)</b></p> <ul style="list-style-type: none"> <li>- Remote server management</li> <li>- Out-of-band system monitoring</li> <li>- Hardware lifecycle management</li> <li>- with DHCP &amp; Legacy Password enabled</li> </ul>	<p><b>Storage Boot &amp; RAID Configuration</b></p> <ul style="list-style-type: none"> <li>- <b>Dedicated boot storage controller or equivalent solution</b></li> <li>- Dual M.2 or SSDs <b>≥ 480GB each</b></li> <li>- Configured in <b>RAID 1 (mirroring)</b></li> <li>- Dedicated OS storage separating boot from data workloads</li> </ul> <p><b>Backplane:</b> NVMe backplane supporting at least 8 x 2.5" NVMe SSDs</p> <p><b>Storage Software</b></p> <ul style="list-style-type: none"> <li>- Must support HCI system software with cache and capacity drive architecture</li> <li>- Must support distributed storage and data redundancy</li> <li>- Software-defined storage preferred, hardware RAID optional</li> <li>- Includes centralized management software for HCI environment</li> </ul> <p><b>Network Interface Card (NIC):</b></p> <ul style="list-style-type: none"> <li>- Dual Port <b>10/25GbE SFP+ or SFP28 (or higher)</b></li> <li>- Supports high-speed networking (10GbE/25GbE or higher)</li> <li>- Interface: PCIe Gen3/Gen4 x8 or higher</li> </ul> <p><b>Ethernet Controller:</b></p> <ul style="list-style-type: none"> <li>- Dual Port <b>1GbE RJ45 onboard (LOM)</b></li> <li>- Speed: up to <b>1Gbps per port</b> IEEE 802.3 compliant</li> </ul> <p><b>Remote Access Controller (Enterprise Edition)</b></p> <ul style="list-style-type: none"> <li>- Remote server management</li> <li>- Out-of-band system monitoring</li> <li>- Hardware lifecycle management</li> <li>- Supports DHCP and automated provisioning</li> </ul> <p><b>Trusted Platform Module (TPM) 2.0 or higher</b></p>
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	<p>- DHCP with Zero Touch Configuration</p> <p><b>Trusted Platform Module (TPM) 2.0 V3</b></p> <p><b>Power &amp; Cooling</b></p> <ul style="list-style-type: none"> <li>- Dual, Hot-Plug, Redundant Power Supplies (1+1), 1100W MM Titanium (high efficiency)</li> <li>- C13 to C14 Power Cords (PDU Style, 10A, 6.5ft)</li> <li>- T-Type Heatsink 165W (for 2-CPU configuration)</li> </ul> <p><b>Support &amp; Warranty</b></p> <ul style="list-style-type: none"> <li>• <b>Parts Only Warranty:</b> at least 36 Months (3 Years)</li> </ul> <p><b>Support with 4Hr Mission Critical Onsite Service:</b> vSAN Extension: at least 12 Months; vSAN Initial: at least 36 Months</p> <p><b>Certified Deployment Partner T2</b></p>	<p><b>Power &amp; Cooling</b></p> <ul style="list-style-type: none"> <li>- Dual, Hot-Plug, Redundant Power Supplies (1+1)</li> <li>- Minimum 1000W per PSU</li> <li>- High-efficiency rating (Platinum/Titanium or equivalent)</li> <li>- High-performance heatsink suitable for dual-CPU configuration</li> <li>- Management Port or Shared Port</li> </ul> <p><b>Support &amp; Warranty</b></p> <ul style="list-style-type: none"> <li>- Parts and Labor Warranty: at least 36 Months (3 Years)</li> <li>- With 4-Hour Mission-Critical Onsite Support Service</li> <li>- Includes firmware updates and technical support for HCI environment</li> </ul> <p><b>Certified Deployment Partner</b></p> <ul style="list-style-type: none"> <li>- Must be implemented by a vendor-authorized or certified partner</li> </ul> <p>Includes installation, configuration, and initial cluster deployment</p>
<p><b>B.4 VIRTUALIZATION SOFTWARE</b></p>	<p><b>Note: Bidders Eligibility</b></p> <ol style="list-style-type: none"> <li>1. The seller must have an 8x5 support service (8 hours a day, 5 days a week)with online ticketing system for proper tracking of issues and concerns</li> <li>2. The seller must have qualified Technical Support Engineers</li> <li>3. <b>The seller must have at least one (1) engineer with certification in handling fiber optic components</b></li> <li>4. <b>The seller must have a valid NTC dealer's permit for Radio Transmitter/Tranceiver/WDN Equipment</b></li> </ol> <p>The seller must have at least one licensed Electronics and Communications Engineer</p>	<p><b>Note: Bidders Eligibility</b></p> <ol style="list-style-type: none"> <li>1. The bidder must have an 8x5 support service (8 hours a day, 5 days a week)with online ticketing system for proper tracking of issues and concerns</li> <li>2. The bidder must have qualified Technical Support Engineers</li> <li>3. The bidder must have at least one (1) qualified technical professional (e.g., ECE) or equivalent professional responsible for system deployment and network-related components.</li> </ol> <p>The bidder must have a valid NTC dealer's permit for telecommunications or network equipment if applicable to supplied equipment.</p>



<b>License Duration: at least 3 Years</b> <b>Subscription End Point Protection</b>	<b>Subscription End Point Protection</b> <i>Specifications:</i> <b>Subscription Duration: 3 years with 20-user license End Point</b>	<b>Subscription End Point Protection</b> <b>Number of Licenses: 720 Endpoints</b>
		<b>Number of Current Servers: 8 Units</b> <b>Specifications:</b> -RAM: 32GB/64GB -Processor: Xeon Gold <b>Number of Disaster Recovery Servers: 1 server</b>

**Others:**

A. **Cluster A & B** : Site Plan for installation of Mobile Network

- *Roof installation for 15 buildings (13 main campus; 1 San Ramon Campus; 1 ESU-Diplahan)*

**Cluster C:** Location Map for LED Wall (15 Meters Away from Gate3)



Notice is also hereby given that the receipt and opening of bids originally scheduled May 5, 2026 9:30 AM is postponed to **May 21, 2026 9:30 AM** in compliance with the rules.

To reiterate, please observe the new schedule provided below:

**I. RECEIPT AND OPENING OF BIDS**

• PR 26-02-065 A/ PhilGEPS Ref. No: **12829813** Date and Time: **May 21, 2026 9:30 AM**  
**ADOPTION OF DIGITAL LEARNING PLATFORM**  
**THROUGH ICT MODERNIZATION (WEB SECURITY WITH LOAD BALANCING)**  
**(ABC: Php 35,100,000.00)**

For further inquiries, you may coordinate with the Bids and Awards Committee Secretariat at Tel. No. (062) 991-1771 loc 1002

Please be guided accordingly.

**DR. JOSELITO D. MADROÑAL**  
 BAC Chairperson for Goods