



15 July 2025

SUPPLEMENTAL BID BULLETIN
ADDENDUM NO. 2025-24-03

Subject: Supply, Delivery, Installation, Training, Testing and Commissioning of Big Data Cluster Storage Enhancement (Reference: PR No. 2024-11-0754 || IB 2025-24)

This Bid Bulletin is being issued to all prospective bidders to clarify, amend and/or modify certain provisions in the Bidding Documents and to answer written queries and clarificatory questions during the pre-bid conference by prospective bidders, to wit:

Queries from: **TEKZONE COMPUTER SALES AND SERVICES INC.**

Queries	Answers
<p>1. NETWORK COMPATIBILITY</p> <p>Is the existing network infrastructure compatible with the proposed network requirement? Additionally, could you please confirm the current network brand and model in use to assess compatibility?</p>	<p>The existing is SPF+ multimode Fiber optics. The brand is Huawei.</p>
<p>2. We would like to request for this to be relaxed since “File fabric software” is a software produced by a specific vendor.</p> <p>We would like to ask if it can be relaxed to “The proposed file storage must be designed to provide scalable, high-performance file storage with features like data protection, erasure coding, and seamless integration with cloud services.”</p>	<p>Please refer to item no. 2 of SUPPLEMENTAL BID BULLETIN NO. 2025-24-02</p> <p>The technical specifications outlined in the Terms of Reference (TOR) represent the minimum requirements of the Project. Accordingly, prospective bidders may propose alternative solutions in their respective proposals, provided that such alternatives are fully compliant and responsive to the specific project requirements and offer clear advantages to the government.</p>
<p>3. We would like to ask if PAGASA can consider other encryption protocol like AES encryption which are also compliant to FIPS140-2?</p> <p>Suggestion:</p> <p>“With advanced data protection techniques such as erasure coding, replication, snapshots, and FIPS140-2 or similar encryption to ensure data integrity and security.”</p>	<p>Please refer to item no. 4 of SUPPLEMENTAL BID BULLETIN NO. 2025-24-02</p> <p>With advanced data protection techniques such as erasure coding, replication, snapshots, and FIPS140 (1 4) encryption to ensure data integrity and security.</p> <p>The technical specifications outlined in the Terms of Reference (TOR) represent the minimum requirements of the Project. Accordingly, prospective bidders may propose alternative solutions in their respective proposals, provided that such alternatives are fully compliant and responsive to the specific project requirements and offer clear advantages to the government.</p>
<p>4. We would like to ask for this to be relaxed. Since other vendors may have bigger rack unit size and can provide higher capacity per node. With bigger RU and higher capacity per node, other vendor can lessen the total number of nodes which can lower the datacenter footprint and also be more energy saving.</p> <p>Request if it could be relaxed to <u>“With a serviceable 1U, 2U or 4U chassis configuration to save data center space and allows for easy serviceability with hot-plug drives. All storage</u></p>	<p>Please refer to item no. 8 of SUPPLEMENTAL BID BULLETIN ADDENDUM NO. 2025-24-02</p> <p>The technical specifications outlined in the Terms of Reference (TOR) represent the minimum requirements of the Project. Accordingly, prospective bidders may propose alternative solutions in their respective proposals, provided that such alternatives are fully compliant and responsive to the specific project requirements and offer clear advantages to the government.</p>

“tracking the sky...helping the country”

<p><u>nodes, including storage switches, must be installed in a single 42U data cabinet.”</u></p>	
<p>5. <u>We respectfully seek confirmation to relax this specification. Upon checking only NVIDIA spectrum can comply. HP, cisco, Huawei and etc have this Bpps but are all 32 ports and all are based on 4u chassis and are for core switch level.</u></p> <p>Can we request changing to "5. Must deliver predictable and consistent throughput of at least 1.2 Bpps processing capacity regardless of the transfer packet size." To accommodate other similar solutions.</p>	<p>Please refer to item no. 9 SUPPLEMENTAL BID BULLETIN ADDENDUM NO. 2025-24-02</p> <p>The switch must be a high port-density model in at least a 1U form factor, equipped with 48 SFP28 25GbE ports and a minimum of 6 QSFP28 100GbE ports, ensuring flexible and scalable connectivity options to support high-performance networking demands.</p>
<p>6. We respectfully seek confirmation for an alternative design. Our proposed storage can provide 3PB usable capacity with a minimum of 8 storage nodes.</p> <p>Suggestion: “The solution shall comprise a <u>minimum of eight (8)</u> to sixteen (16) units of storage nodes housed in 1U, 2U, 3U, or 4U chassis configurations. All storage nodes, including network switches, must be integrated within a single 42U data cabinet. The unified system shall deliver a minimum of 3 petabytes (PB) of usable storage capacity. The storage nodes must function as a single, cohesive data storage system across multiple servers, presenting a unified storage environment to both users and applications. “</p>	<p>Please refer to item no. 13 of SUPPLEMENTAL BID BULLETIN ADDENDUM NO. 2025-24-02</p> <p>Constitute at least TEN (10) to SIXTEEN (16) UNITS of storage nodes in 1U, or 2U, or 4U Chassis provided all storage nodes, including switches, are fitted in a single 42U data cabinet and shall have a USABLE storage capacity of 3 PB or more. The storage nodes will form a unified data storage system across multiple servers appearing as a single entity to users and applications</p>
<p>7. For line H, we would like to request if it can be relaxed to accommodate other solutions that uses non-linux based management tools.</p> <p>Suggestion: h). Native Linux Management tools like OpenSSH, SCP, and FTPS <u>or SSH, ftp, or Zero Touch Provisioning (ZTP).</u></p>	<p>Please refer to item no. 14 of SUPPLEMENTAL BID BULLETIN ADDENDUM NO. 2025-24-02</p> <p>Please be advised that the technical specifications provided under line Items G and H represent the minimum requirements necessary to ensure compatibility, manageability, and performance consistency with the proposed system architecture. However, the term "or similar" was intentionally included to allow flexibility for equivalent solutions that can deliver comparable functionality, interoperability, security, and reliability, even if they are not Linux- or NVIDIA-based.</p> <p>Therefore, non-Linux and non-NVIDIA-based management platforms may be considered, provided that the proposed solution clearly demonstrates full compliance with the required management capabilities, such as secure remote access, automation support, configuration management, system monitoring, and file transfer protocols.</p>

Queries from: **MASSIVE INTEGRATED TECH SOLUTION INC.**

Queries	Answers
<p>1. TECHNICAL SPECIFICATIONS AND REQUIREMENTS</p> <p>Does the proposed solution support running virtual machines (VMs) within the nodes of the cluster?</p>	<p>Please be informed that the subject of the inquiry is not covered under the Terms of Reference (TOR) of the Project. As such, it is not considered a required component of the technical specifications. Nevertheless, prospective bidders may propose additional or alternative features in their submissions, provided these are fully compliant with the TOR, responsive to the project objectives, and demonstrably advantageous to the government.</p>
<p>2. TECHNICAL SPECIFICATIONS AND REQUIREMENTS</p> <p>Does the proposed solution support both ESXi and KVM-based hypervisors (e.g. AHV), ensuring consistent capabilities across hypervisors while enabling customer choice and avoiding vendor lock-in?</p>	<p>Please be informed that the subject of the inquiry is not covered under the Terms of Reference (TOR) of the Project. As such, it is not considered a required component of the technical specifications. Nevertheless, prospective bidders may propose additional or alternative features in their submissions, provided these are fully compliant with the TOR, responsive to the project objectives, and demonstrably advantageous to the government.</p>
<p>3. HARDWARE INFRASTRUCTURE</p> <p>We would like to confirm if the following adjustment will be allowed:</p> <p>Approved SBB Specifications (Based on 10 nodes):</p> <ol style="list-style-type: none">2 x Intel Xeon 4310 (2.1GHz/12C/120W) processors x 10 nodes = Total of 20 processors128GB DDR4 Smart Memory x 10 nodes = Total of 1,280 GB RAM24 x 10TB SATA LFF LP drives (240TB raw capacity) x 10 nodes = Total of 2,400 TB <p>We respectfully request confirmation that this adjustment will not affect post-qualification evaluation by the TWG, and that it will be considered compliant with the revised TOR as clarified in the Bid Bulletin.</p>	<p>The solution shall comprise a minimum of ten (10) to sixteen (16) units of storage nodes housed in 1U, 2U, 3U, or 4U chassis configurations. All storage nodes, including network switches, must be integrated within a single 42U data cabinet. The unified system shall deliver a minimum of 3 petabytes (PB) of usable storage capacity. The storage nodes must function as a single, cohesive data storage system across multiple servers, presenting a unified storage environment to both users and applications.</p>

This shall form an integral part of the Bid Documents.

For guidance and information of all participating bidders.

Sgd.
SHIRLEY J. DAVID
Chairperson, PAGASA-BAC

“tracking the sky...helping the country”