LANDBANK
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SUPPLEMENTAL/BID BULLETIN NO. 2
For LBP-HOBAC-ITB-GS-20201104-01

PROJECT	:	**Blade Servers and Storages with Hyper Converged Infrastructure (HCI) Technology for Head Office and Disaster Recovery Sites**
IMPLEMENTOR	:	**Procurement Department**
DATE	:	**April 23, 2021**

This Supplemental/Bid Bulletin is issued to modify, amend and/or clarify certain items in the Bid Documents. This shall form an integral part of the Bid Documents.

Modifications, amendments and/or clarifications:

1) The bidder/s are encouraged to use the Bid Securing Declaration as Bid Security.

2) The Terms of Reference (Annex D), Technical Specifications (Section VII), and Checklist of the Bidding Documents (Item Nos. 4, 12, 14, 15, 16 of the Eligibility and Technical Documents) has been revised. Please see attached revised Annexes D-1 to D-6 and specific sections of the Bidding Documents.

3) The deadline for the submission of electronic bids for the above project is re-scheduled on **April 30, 2021** at **10:00 A.M.** Submission of physical bids (hard copy) shall **not** be accepted.

4) LANDBANK responses to bidders queries/clarifications are provided in the attached Annexes H-1 to H-2.

ALWIN I. REYES
Assistant Vice President
Head, Procurement Department and
HOBAC Secretariat

Technical Specifications

Specifications	Statement of Compliance
	Bidders must state below either "Comply" or "Not Comply" against each of the individual parameters of each Specification preferably stating the corresponding performance parameter of the product offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.
Blade Servers and Storages with Hyper Converged Infrastructure (HCI) Technology for Head Office and Disaster Recovery Sites 1. Scope of works, specifications and other requirements per attached Terms of Reference (**Revised Annexes D-1 to D-6**) and Bill of Quantities (Annex E). 2. For current and past suppliers of Blade Servers and Storages for LANDBANK, they must have satisfactory performance in their dealings with LANDBANK for the past twelve (12) months (reckoned from the date of issuance of the Certificate of Satisfactory Performance).	**Please state here either "Comply" or "Not Comply"**

A Certificate of Satisfactory Performance issued by the Head, Network Operations Department not earlier than thirty (30) calendar days prior to the deadline of submission of bid (applicable only for current and past suppliers of Blade Servers and Storages for LANDBANK) shall be included in the Technical Component PDF File. The Certificate shall still be subject to verification during post qualification of bid. NOTE: The Certificate of Satisfactory Performance shall be requested in writing from the Head of NOD Mr. Enrique L. Sazon Jr. at 16th Floor, LANDBANK Plaza Building (Tel. No.: 8405-7168) and can be sent through email at **RICKY_SAZON@mail.landbank.com**, at least five (5) working days prior to the submission of bid. Non-submission of the above mentioned document/requirement may result in bidder's disqualification.	

Conforme

_____
Name of Bidder

_____
Signature over Printed Name of
Authorized Representative

_____
Position

Checklist of Bidding Documents for Procurement of Goods and Services

The documents for each component should be arranged as per this Checklist. Kindly provide guides or dividers with appropriate labels.

Eligibility and Technical Components (PDF File)

- ***The Eligibility and Technical Component shall contain documents sequentially arranged as follows:***

  - **Eligibility Documents – Class "A"**

Legal Eligibility Documents

1. Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages); or all of the following:

   - Registration Certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the Bidding Documents;

   - Valid and current mayor's/business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or equivalent document for Exclusive Economic Zones or Areas; and

   - Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Eligibility Documents

2. Duly notarized Secretary's Certificate attesting that the signatory is the duly authorized representative of the prospective bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the prospective bidder in the bidding, if the prospective bidder is a corporation, partnership, cooperative, or joint venture or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder. (sample form - Form No. 7).

3. Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid, within the last five (5) years from the date of submission and receipt of bids. The statement shall include all information required in the sample form (Form No. 3).

4. **Statement of the prospective bidder identifying its Single Largest Completed Contract (SLCC) similar to the contract to be bid within the relevant period as provided in the Bidding Documents. The statement shall include all information required in the sample form (Form No. 4).**

Financial Eligibility Documents

5. The prospective bidder's audited financial statements, showing, among others, the prospective bidder's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission.

6. The prospective bidder's computation for its Net Financial Contracting Capacity (NFCC) following the sample form (Form No. 5), or in the case of Procurement of Goods, a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

o **Eligibility Documents – Class "B"**

7. Duly signed valid joint venture agreement (JVA), in case the joint venture is already in existence. In the absence of a JVA, duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful shall be included in the bid. Failure to enter into a joint venture in the event of a contract award shall be ground for the forfeiture of the bid security. Each partner of the joint venture shall submit its legal eligibility documents. The submission of technical and financial eligibility documents by any of the joint venture partners constitutes compliance, provided, that the partner responsible to submit the NFCC shall likewise submit the statement of all its ongoing contracts and Audited Financial Statements.

8. For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos, Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.

9. Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

- **Technical Documents**

10. Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).

11. Section VI – Schedule of Requirements with signature of bidder's authorized representative.

12. **Revised Section VII – Specifications with response on compliance and signature of bidder's authorized representative.**

13. Duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

14. **Duly filled-out Revised Terms of Reference signed in all pages by the authorized representative/s of the bidder.**

15. **Manufacturer's Authorization Form/Letter of highest level of partnership in Philippines for hardware/server and top-of-rack switch of the proposed solution.**

16. Technical resume and manufacturer's unexpired certifications of certified employed engineers, to wit:

    - **3 Certified Internetwork Expert**
    - **2 Certified Design Professional**
    - **2 Certified Network Professional**
    - **1 Certified Network Associate Data Center**
    - **1 Data Center Operations Specialist**
    - **2 HCI Product Implementation Specialist**
    - **1 HCI Product Deployment Subject Matter Expert**

17. Curriculum Vitae/Resume of Project Manager (PM) who is locally and directly employed by the bidder with at least five (5) years of work experience as Project Manager including list of at least six (6) Information and Communications Technology (ICT) related projects handled (with client company name, name of project, contact numbers and email address).

18. List of local sales and technical office in the Philippines (with complete details of contact person, address, contact number and email address).

19. List of at least three (3) installed bases for Blade Servers and Storages wherein two (2) are bank installed bases and one is (1) non-bank installed base including their respective Certificate of Satisfactory Performance (with client name, contact person, address, telephone number and email address).

20. Escalation and support plan procedure

21. Certificate of Satisfactory Performance issued by the Head, Network Operations Department not earlier than thirty (30) calendar days prior to the deadline of submission of bid (applicable only for current and past suppliers of Blade Servers and Storages for LANDBANK).

- **Post-Qualification Documents – <u>[The bidder may submit the following documents within five (5) calendar days after receipt of Notice of Post-Qualification]:</u>**

22. Business Tax Returns per Revenue Regulations 3-2005 (BIR No.2550 Q) VAT or Percentage Tax Returns for the last two (2) quarters filed manually or through EFPS.

23. Latest Income Tax Return filed manually or through EFPS.

24. Original copy of Bid Security (if in the form of a Surety Bond, submit also a certification issued by the Insurance Commission).

25. Original copy of duly notarized Omnibus Sworn Statement (OSS) (sample form - Form No.6).

<u>Financial Component (PDF File)</u>

- ***The Financial Component shall contain documents sequentially arranged as follows:***

1. Duly filled out Bid Form signed by the Bidder's authorized representative (sample form - Form No.1)

2. Duly filled out Schedule of Prices signed by the Bidder's authorized representative (sample form - Form No.2)

3. Duly filled out Bill of Quantities Form (Annex E)

TERMS OF REFERENCE
BLADE SERVERS AND STORAGES W/ HCI TECHNOLOGY
FOR HEAD OFFICE AND DR SITES

Hyper Converged Infrastructure (HCI) will have at least a cluster size of six (6) nodes per site (production and DR) w/ the following minimum requirements:	**Comply (Y/N)**
Form factor Shall not exceed 2RU per node	
Shall come with two (2) server-based x86 CPU with the following minimum configurations (2.2Ghz Base Frequency, 4.00GHz Turbo Frequency, 24 Cores per Processor, 48 Threads, 35.75MB Cache, 2 UPI Links, 150W TDP)	
Shall come with one (1) 32GB Micro SD Card and one (1) 240GB M.2 SSD per node	
Shall come with at least 256Gb Memory	
Shall come with one (1) quad port Small Form-Factor Pluggable (SFP28) mLOM card That supports 10/25Gbps Ethernet or FCoE. The card can present PCIe standards-compliant interfaces to the host, and these can be dynamically configured as either NICs or HBA	
Shall come with (2) 1050W AC Power Supply	
Scalable up or down in a non-disruptive manner, without having to power down any nodes.	
Scalable without the need for additional disk capacity.	
Built-in high availability to support drive failures or complete node failures in the cluster.	
Can support multiple hypervisors.	
Can support deduplication and compression without a need for third party solution or work around.	
Capability to integrate existing external storage without using additional SAN switch	
10G top-of-rack switch supporting standard Ethernet, iSCSI, Fiber Channel, FCoE with corresponding transceivers, modules and cables. Provision for 25G support is required.	
Rack mountable form with appropriate 42U server rack per site	
Supports hot pluggable All NVMEs	
Able to add and scale compute resources only in a non-disruptive manner	
Supports native FC connectivity to existing SAN systems	
Capability and Specification	
The proposed solution should provide hyper converged software that allows delivery of enterprise-class storage services using latest x86 server infrastructures without dependence on a separate Storage Area Network & associated components such as SAN Switches & HBAs.	
Proposed solution should support the hypervisors listed as a leader in latest report from a reputable global research and advisory firm for Virtualization Infrastructure. The solution components quoted including HCI system, hypervisor, server, and network switch should be listed as a leader in a reputable global research and advisory firm for Hyper Converged Infrastructure, hypervisor, modular servers and Data Center Networking respectively	
The proposed HCI solution should support both hybrid nodes options for future scalability	
The proposed HCI solution should be 100% software defined without dependency on any proprietary hardware device for deduplication and compression	
The proposed HCI solution should be a factory shipped engineered & integrated appliance. All the components of HCI such as compute nodes, hypervisor OS, storage disks, management software should be factory installed and shipped ready for fast deployment.	
The proposed HCI solution should support scaling hyper converged node (compute + storage), compute-only, storage-only (HDDs) independent of each other under a single	

Revised Annex D-1

cluster.	
The proposed solution should support compute only nodes. To add virtual compute capacity to the cluster which can access storage from converged nodes, without incurring any HCI software license cost	
The proposed HCI solution should be proposed with N+1 design. The minimum CPU Cores, Memory and Storage should be available in the event of any one node failure.	
Minimum Configuration	
The proposed HCI solution should support scalability up to 32 nodes in a single cluster. Each server node should have dedicated redundant hot swap power supplies & cooling fans.	
The proposed solution should comprise of **6 nodes per site**. The solution should have **minimum 288 cores, 1.5TB memory per site**. All overheads of CPU, memory for HCI software, considering all features enabled for data efficiency (deduplication, compression etc.) should be provisioned in terms of absolute cores, no processor level efficiency should be considered for overhead calculation.	
The proposed HCI solution should be configured with minimum of **100TB usable storage capacity** excluding cache capacity excluding cache capacity. The capacity to be configured with minimum data protection of **replication factor 3 (RF3) or equivalent or higher**. The capacity should be absolute capacity without considering any data efficiency techniques as data deduplication and compression. Any other capacity required for meta data, host maintenance mode, component rebuilds etc. should be factored over and above the capacity.	
The HCI nodes should be configured with 6G SATA SSD HDDs for capacity tier per server node. The HDDs should be presented via pass through mode without any hardware RAID on every server node.	
Supports FCoE Fibre Channel	
The proposed hyper converged system should include a minimum **2 units of network switches per site, each with 54 ports per switch with redundant power supplies and cooling fan**. The switches should be provided with sufficient 10/25Gbps or equivalent bandwidth for downlink ports and 4 * 10Gps Ethernet ports for uplink connectivity. All required SFPs and licenses should be provided.	
Network Integration and Automation	
The network switches included with the HCI solution should support connection to existing storage fabric over FC/FCoE/NFS/ ISCSI protocols. The vendor should provide the required network switches and required adapters to support these storage protocols.	
The network switch should support QoS to streamline HCI network traffic to improve traffic filtering, segmentation and performance.	
The proposed HCI solution must support end-to-end installation of compute, network, storage, and network QoS in automated installation steps.	
The proposed solution should have multiple virtual switches for network traffic segregation. Various network traffics such as management, storage, virtual machine, live migration etc. in the HCI should be segregated on to independent virtual switch for improved traffic management and scaling. The procedure must be fully automated in the HCI installation. Any license required should be provided on day 1.	

Revised Annex D-2

The proposed HCI solution should support multiple server identities can be deployed from a master server identity or a master template. Server identities that are created and linked to the master server identity inherits any modifications done to the master identity. Example, the version of the Server BIOS is changed in the master identity and all linked server identities inherit the new modified Server BIOS version .	
The proposed solution should support Single click non-disruptive rolling upgrades of HCI software and system firmware.	
Management	
The proposed solution should support Role Based Access Control so that the resources can be managed by respective resource administrator. Parent administrator still have control over resources under their respective child resources	
The proposed HCI solution should have Automated call home capability in the event of critical server failure or thresholds that are crossed which could impact server performance or customer SLA.	
Integration with the Microsoft Active Directory groups	
Single dashboard to manage virtual machines, network, storage, monitor performance and manage events & alerts.	
The proposed solution should have a plugin in the Hypervisor for HCI management. Administrators should be able to view, provision, manage and monitor HCI solution from the hypervisor's management dashboard.	
The proposed HCI storage should be a scale-out distributed storage.	
Storage Architecture	
The proposed HCI software should pool all HDDs from all the nodes in the cluster to present a single storage resource pool to all server nodes in the cluster. There should not be any dependence on data locality	
The proposed HCI software should pool all SSDs from all the nodes in the cluster to present a single storage cache pool across the HCI nodes.	
The proposed HCI should support IO striping across all SSDs in the cluster for individual virtual machines to extract maximum throughput and performance from the cluster.	
The proposed HCI solution should support scaling storage capacity and performance linearly by addition of nodes. VMs on existing nodes should get the storage performance & capacity that was scaled by the addition of new HCI nodes.	
The proposed HCI solution should be able to present cluster wide storage performance to any single large Virtual machine.	
Present scale-out storage to compute only nodes for seamless failover of compute-only nodes for a fully high available design of HCI	
The proposed HCI should support connecting to external 3rd party SAN (FC,ISCSI) and NAS (CIFS, NFS) storage into the HCI cluster for capacity expansion and ease of migration from existing environment to HCI	
The proposed HCI solution should support various data replication methods or equivalent for data protection. The software licenses required to enable any replication method must be included	
The proposed HCI solution should support Inline deduplication across all storage tiers.	

Revised Annex D-3

The proposed HCI solution should support for 2 nodes failure in entire solution	
The proposed solution should support Instant space optimized point-in-time snapshots. Should allow for taking snapshots of individual virtual machines to be able to revert back to an older state, if required. Any additional software and license should be provided on day 1.	
The proposed solution should allow for taking clones of individual Virtual Machines for faster provisioning. Any additional software or license required should be provided on day 1.	
The proposed HCI storage should have integrated wizard to schedule snapshot for hourly/weekly/monthly snapshot policies. Any additional software or license should be provided on day 1.	
The proposed solution should support data at rest encryption. Any license required to support the feature should be quoted from Day 1	
The proposed HCI storage should have integrated wizard for batch clones of virtual machines and customization. Any additional software or license should be provided on day 1.	
The proposed solution should automatically rebalance data to maintain balanced utilization of storage across the HCI nodes. When storage capacity is scaled up or scaled out, the HCI modes must automatically redistribute data equally across all nodes equally without migrating VMs.	
The proposed HCI solution quoted should have native replication capability independent on hypervisor	
Virtualization Software	
Virtualization software shall provide a virtualization layer that sits directly on the bare metal server hardware with no dependence on a general purpose OS for greater reliability and security	
Virtualization software should support live virtual machine migration with enhanced CPU compatibility and without the need for shared storage option.	
Virtualization software should have the ability to live migrate VM files from one storage array to another without any VM downtime. Support this migration from one storage protocol to another (ex. FC, iSCSI, DAS)	
Virtualization software should allow for hot addition of virtual CPU, memory, disk without any downtime.	
Virtualization software shall have High Availability capabilities for the virtual machines in the sense if in case one server fails all the virtual machines running on that server shall be able to migrate to another physical server running same virtualization software. This high availability feature should also be extended to and aware of the applications running inside of the virtual machines.	
Virtualization software should have the provision to provide zero downtime, zero data loss and continuous availability for the applications running in virtual machines in the event of physical host failure, without the cost and complexity of traditional hardware or software clustering solutions. This option should be supported for up to 4 virtual CPU per virtual machine.	
Virtualization software shall be able to dynamically allocate and balance computing capacity across collections of hardware resources aggregated into one unified resource pool with optional control over movement of virtual machines like restricting VMs to run on selected physical hosts.	
Management Server: The bidder shall provide one (1) server per site with the following configurations - at least 2.2GHz 10Core CPU, 64GB RAM, 600GB Disk usable capacity, raid-1.	

Revised Annex D-4

Infrastructure Management Platform	
Intelligent cloud-based infrastructure management with embedded analytics.	
Automated and simplified infrastructure provisioning and maintenance.	
Display and report inventory information for all connected systems with a global search option to rapidly identify systems based on names, identifiers, and other information	
Have the ability to track and report firmware versions across all the connected rack , blade and hyper converged servers	
The dashboard is user customizable, allowing users to focus on the information and tasks that are relevant to them	
Also has the ability to cross-launch virtual KVM (Keyboard-Video-Mouse) sessions from the cloud	
Tunneling capabilities to allow secure access to the manager whether you are inside or outside the corporate network.	
Get automated alerts about failure notifications and automate the generation and forwarding of technical support files to the vendors technical support team to accelerate the troubleshooting process.	
A RESTful API that supports the OpenAPI standard to provide full programmability and deep integrations.	
Seamless upgrades to the cloud based platform are delivered automatically without requiring the resources of traditional management tool upgrades and disruption to customer operations.	
Can install the Hyper Converged platform remotely from the cloud management platform	
Supports the ability to modify the identity of a standalone rack servers through a policy based system - where the identity of the server would mean the server BIOS version, firmware versions, QoS, Server Boot Policies, KVM IP etc.	
Centralized configuration management through a unified policy engine, determine compliance with the vendors Hardware Compatibility List (HCL), and initiate firmware updates	
Templates for server configuration, which could be also used when adding additional nodes	
Movement capability of server identity from one slot to another in the event of server failure	
Automated call home capability in the event of critical server failure or thresholds that are crossed which could impact server performance or customer Service Level Agreement (SLA)	
BIDDERS/VENDOR CRITERIA	
The Bidder must be a certified GOLD partner or equivalent of the highest level partnership of the manufacturer for the solution being offered. Bidder must submit Manufacturer's Authorization Form / Letter of highest level of partnership in Philippines for hardware/server and top-of-rack switch of the proposed solution.	
The Bidder must have certified locally employed engineers to support the installations, configurations and 24x7 uptime services within the warranty period. Bidder must submit the technical resume of its local engineers including the following manufacturer's unexpired certifications or its equivalent: • 3 x Certified Internetwork Expert	

Revised Annex D-5

• 2 x Certified Design Professional • 2 x Certified Network Professional • 1 x Certified Network Associate Data Center • 1 x Data Center Operations Specialist • 2 x HCI Product Implementation Specialist • 1 x HCI Product Deployment Subject Matter Expert	
The Bidder must provide a dedicated Project Manager (PM) to oversee the project. The Project Manager must be locally and directly employed by the bidder with at least five (5) years work experience as PM. Bidder's PM must submit CV/Resume and list of projects handled with at least six (6) Information and Communications Technology (ICT) related projects, indicate on list the the client company name, name of project, contact numbers and email address. The PM must be locally and directly employed.	
The Manufacturer must have local sales and technical office in the Philippines for the guaranteed support. Must submit the list of the contact person, address, contact number, email address.	
The Bidder must submit a list of installed base for the Blade Servers and Storage. The bidder must submit Certificate of Satisfactory Performance on every installed base, provide client name, contact person, address, telephone number and email. Minimum of three (3) installed base as follows; • 2 x Bank Installed base • 1 x Non-Bank Installed base	
The Bidder must have a local Helpdesk/service desk to provide 24 x 7 technical assistance. Bidder must submit the escalation and support plan procedure.	
The Bidder must provide knowledge transfer and administration training to at least eight (8) LBP IT personnel	
Three (3) years warranty for hardware and software with 24 x 7 Technical support	
Delivery Period: 45 calendar days upon receipt of Notice to Proceed	

Revised Annex D-6

LANDBANK Responses to Bidders Queries/Clarifications

TOR Reference	Inquiries/Questions	Response/Remarks
Annex D – 1: Item # 3 states the following:		
Shall come with one 32GB Micro SD Card	Can we offer a better technology using M.2 SSD which has a better performance and reliability than SD Card?	Updated TOR shall come with minimum one 32GB Micro SD card and one 240GB M.2 SSD per node
Annex D – 1: Item # 6 states the following:		
Shall come with (2) 1050W AC Power Supply	Is the 1050W AC Power Supply a minimum requirement? Our system supports 1100W, is this acceptable?	This is maximum due to Data Centers UPS load capacity and heat dissipation consideration.
Annex D – 1: Item # 13 states the following:		
10G top-of-rack switch supporting standard Ethernet, iSCSI, Fiber Channel, FCoE with corresponding transceivers, modules and cables.	In the previous entry, the required ports were 10/25G, however the top-of-rack switch requested is only 10G. Will the 25G ports still be needed? Or can we only use 10G?	10/25G unified ports are required for expansion and future proof. Provision for 25G support is required.
Annex D – 1: Under Capability and Specification, item # 8 states the following:		
The proposed HCI solution should be proposed with N+1 design. The minimum CPU Cores, Memory and Storage should be available in the event of any one node failure.	Does the N+1 requirement already included in the 6 Nodes requirements? Or we need to add 1 more nodes from the 6 units requirements to make it 7 Notes/Quantity?	Yes. N+1 should already be included in the 6 nodes.
Annex D – 5 under Bidders/Vendor Criteria, item #1 states the following:		
The Bidder must be a certified GOLD Partner of the solution being offered. Bidder must submit current certifications from the manufacturer.	Can we just submit a certified Manufacturer's Authorization Form (MAF) certification from our Technology Partners since the GOLD level of partnership does not apply all. Also should we submit all Manufacturer Certifications of our proposed solutions for HCI, Hypervisor and Switches or just the HCI components?	Yes. Gold level partnership or equivalent highest-level partnership in Philippines. A MAF with certification of gold/highest level of partnership in Philippines for hardware/server and top-of-rack switch of the proposed solution.
Annex D – 5 under Bidders/Vendor Criteria, item #2 states the following:		
The Bidder must have certified employed engineers to support the installations, configurations and 24x7 uptime services within the warranty period. Bidder must submit the technical resume of its local engineers including the following manufacturer's unexpired certifications.	For the above requirements, it pertains to a specific brand and since we are representing another Principal/ Technology Partner it has a different set of certifications.	The certification must be issued and certified by the manufacturer. The technical/engineers must be certified and locally employed by the bidder and not from the principal and/or distributor.

TOR Reference	Inquiries/Questions	Response/Remarks
Annex D – 5 under Bidders/Vendor Criteria, item #2 states the following:		
	Also should we submit all Engineer/s certification for the HCI, Hypervisor and Switch products or just the HCI only?	Below revision;
• 2 x Certified Network Associate Data Center		• 1 x Certified Network Associate Data Center
• 1 x Data Center Unified Computing Design Specialist		• 1 x Certified Data Center Operation Specialist
• 1 x Data Center Black Belt Program		• 2 x HCI Product Implementation Specialist
• 1 x Tech Expert – HX Deployment Completion		• 1 x HCI Product Deployment Subject Matter Expert
Annex D – 5 under Bidders/Vendor Criteria, item #5 for the list of installed base		
	Other than the Blade Servers and Storage, can we use a reference also more than 100 units of Rack Servers (DataLake) projects as reference sites.	Requirements is at least Converged Infrastructure installed base
Annex E, item # 5 states the following: [redacted]		
	If our solution already has the management server included/ embedded in the HCI cluster, will you still need a separate management node? What management software will be installed in the server? Is it the HCI management or the Hypervisor? What is the specs of the Management Server?	In adherence to best practice of hypervisor management. The management server should have at least 2.2Ghz 10Core CPU, 64GB RAM, 600GB Usable capacity raid 1 per site