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**SUPPLEMENTAL / BID BULLETIN No. 1**

Project : Procurement of Disaster Recovery and Resiliency – Hyper-converged Infrastructure  
Reference No. : PB-GS-14-2018  
ABC : PhP 15,000,000.00  
Date : 18 May 2018

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This supplemental/bid bulletin is issued to provide information to the prospective proponents/bidders on the following changes to the Bidding Documents:

- I. **Technical Specifications (Section VII)** – The Technical Specifications (Section VII) of the Bidding Documents is superseded by ANNEX 1 of this Supplemental/Bid Bulletin No. 1 after considering inputs from prospective bidders during the pre-bid conference on 16 May 2018.

The Bidding Documents is amended accordingly.

For the information and guidance of all concerned.

(Sgd.)

**IMELDA M. PANOLONG**  
BAC Chairperson

# Annex 1

## Technical Specifications

### Disaster Recovery and Resiliency – Hyper-converged Infrastructure

I.	<p><b>BACKGROUND</b></p> <p>Disaster recovery is an integral part of the overall risk management of the Department of Foreign Affairs. In the event of a disaster or emergency, the continued operations of the Department depend on the its ability to execute a solid and proven disaster preparedness plan that would replicate and facilitate the continuance of its IT infostructure to ensure minimal interruption to its operations.</p>	
II.	<p><b>OBJECTIVE</b></p> <p>The Department shall acquire a Hyper-converged Infrastructure (HCI) with Orchestration/Automation tools</p> <p>The solution shall provide comprehensive end-to-end automation mirroring across <i>compute, storage and networking</i> to ensure the Department’s Disaster Recovery and Resiliency compliance to enable timely recovery of critical IT Infostructure following major disruption or disaster.</p>	
III.	<b>SCOPE OF WORK</b>	<b>Statement of Compliance</b>
	<b>Contractor Responsibility</b>	
	<p>The Contractor shall:</p> <ol style="list-style-type: none"> <li>1. Supply, deliver, install and configure the <b>HYPER-CONVERGED INFRASTRUCTURE (HCI) with Orchestration/Automation tools</b> at the Department of Foreign Affairs Main Building;</li> <li>2. Conduct server virtualization and migration of existing servers and connect existing SAN storage to the HCI platform;</li> <li>3. Provide free classroom and hands-on training to all OAMSS-ITCRD personnel on the installation, configuration, management and maintenance of the HCI;</li> <li>4. Provide Virtual Machine Software (VMWare) certification training to five (5) OAMSS-ITCRD personnel;</li> <li>5. Provide 24x7 technical/customer support;</li> </ol>	

	<ol style="list-style-type: none"> <li>6. Provide four (4) hours response and six (6) hours resolution time during the warranty period of three (3) years; and</li> <li>7. Assign single point of contact for all technical inquiries/issues.</li> <li>8. <b>Provide from their own human resource the following number of technical engineers with the corresponding qualification for the installation, configuration and commissioning of the HCI:</b> <ol style="list-style-type: none"> <li>a. <b>Three (3) Certified Network Engineer(Associate)</b></li> <li>b. <b>One (1) Certified Network Engineer (Professional)</b></li> <li>c. <b>One (1) Certified Design Engineer</b></li> <li>d. <b>In case of Joint Venture both partners should have all five (5) requirements each</b></li> </ol> </li> </ol>	
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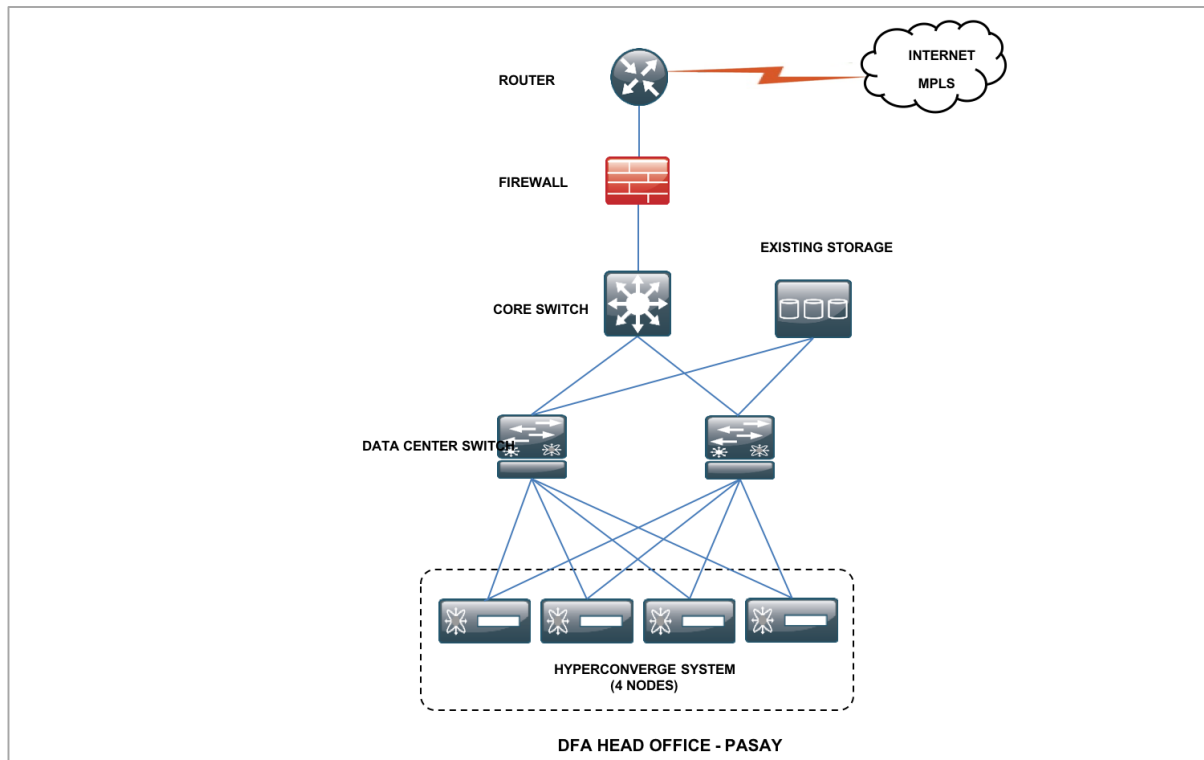
IV	<b>TECHNICAL SPECIFICATION</b>	
	<b>A. Hyper-converged Infrastructure (HCI)</b>	
	<p><b>The HCI shall have the following minimum architectural specifications:</b></p> <ol style="list-style-type: none"> <li>1. At least a cluster size of (3) three nodes with the following minimum requirements: <ol style="list-style-type: none"> <li>a. 256GB memory per node.</li> <li>b. 20-cores (dual processor) per node.</li> <li>c. Intel Gold 6148 dual processor per node.</li> <li>d. Scalable up or down in a non-disruptive manner, without having to power down any nodes.</li> <li>e. Scalable without the need for additional disk capacity.</li> <li>f. Built-in high availability to support drive failures or complete node failures in the cluster.</li> <li>g. Dual power supply per node.</li> </ol> </li> <li>2. Has an expandable initial usable storage capacity of 25TB.</li> <li>3. Can support multiple Hypervisors.</li> <li>4. <b>Can support deduplication and compression without a need for third party solution or work around.</b></li> </ol>	

	<ol style="list-style-type: none"> <li>5. Capability to integrate existing external storage without using additional SAN switch. (Please see Annex A).</li> <li>6. Native 40G interface and backward compatibility with 10G.</li> <li>7. 10G top-of-rack switch supporting standard Ethernet, iSCSI, Fiber Channel, FCoE with corresponding transceivers, modules and cables.</li> <li>8. Rack mountable form with appropriate server rack.</li> </ol>	
	<p><b>B. Orchestration/Automation tools</b></p>	
	<p><b>The Orchestration/Automation tools shall have the following management requirements:</b></p> <ol style="list-style-type: none"> <li>1. Intelligent cloud-based infrastructure management with embedded analytics.</li> <li>2. Central systems monitoring from a single management tool, including server alarms and alerts inside the virtual management interface.</li> <li>3. Customizable dashboard that allows focus on relevant information and tasks.</li> <li>4. Automated and simplified infrastructure provisioning and maintenance.</li> <li>5. Seamless automated upgrades.</li> <li>6. Support installation of the network, server and storage software from a single installer.</li> <li>7. Templates for server configuration, which could be also used when adding additional nodes.</li> <li>8. Capability to perform all storage functions (create, delete, modify from the virtual management interface).</li> <li>9. Single button upgrade (both storage software and server firmware from single interface).</li> <li>10. Capability to enforce policies in the system BIOS settings and configuration.</li> <li>11. Multiple server identities that can be deployed from a master server identity or a master template.</li> <li>12. Movement capability of server identity from one slot to another in the event of server failure.</li> <li>13. Agentless internal hard disk drive monitoring and tracking.</li> <li>14. 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).</li> <li>15. Built-in scheduler to set up specific disruptive actions.</li> </ol>	

	<p>16. Capability to connect out-of-band to the server Keyboard Video Monitor (KVM) access from the hypervisor management.</p> <p>17. A cloud-like portal <b>(browser based)</b> for users to deploy their own VM application with approval from the administrator.</p>	
	<p><b>C. Other Requirements:</b></p> <ol style="list-style-type: none"> <li>1. Complete licenses of hypervisor and management.</li> <li>2. Performance documentation of their HCI from ESG and Gartner.</li> <li>3. End-to-end support of the HCI.</li> <li>4. Migration of all existing physical and virtual servers to hyper-converged environment.</li> </ol>	
V	<b>CONTRACTOR'S QUALIFICATIONS</b>	
	<ol style="list-style-type: none"> <li>1. The Contractor shall have at least ten (10) years in IT-related business operations.</li> </ol>	
	<ol style="list-style-type: none"> <li>2. The Contractor shall be a Certified Partner of the brand being offered for at least five (5) years.</li> </ol>	
	<ol style="list-style-type: none"> <li>3. The Contractor shall submit the following certification issued by the manufacturer: <ol style="list-style-type: none"> <li>a. Endorsing the Contractor, to bid, sell, support and maintain the product being offered;</li> <li>b. That all equipment are brand new and up to date.</li> </ol> </li> </ol>	
	<ol style="list-style-type: none"> <li>4. The Contractor's technical engineers must be locally employed and shall submit the following proof of qualifications and employment: <ol style="list-style-type: none"> <li>a. Certified True Copy of Certificate as enumerated in Section III (8)</li> <li>b. Certified True Copy of Company ID</li> <li>c. Certified True Copy of Certificate of Employment</li> </ol> </li> </ol>	
VI.	<b>WARRANTY</b>	
	<b>3 years from the start of deployment.</b>	
VII.	<b>CONFIDENTIALITY CLAUSE</b>	

	<b>The Contractor shall ensure that each of its personnel assigned to the Department shall execute and sign a Non-Disclosure Agreement which is to be submitted to the Department prior to commencement of the service.</b>	
VII.	<b>LIABILITY CLAUSE</b>	
	<b>The contractor shall be liable for any direct damage to the Department, in case of gross negligence or willful misconduct in its part in the implementation of the Disaster Recovery and Resiliency – Hyper-converged Infrastructure.</b>	
VIII.	<b>DELIVERY AND PAYMENT</b>	
	<b>1. The Contractor shall deliver and implement the HCI and Orchestration/Automation tools within forty-five (45) calendar days upon receipt of Notice to Proceed (NTP).</b>	
	2. Payments shall be made thirty (30) working days upon full implementation of the system and receipt of the invoice with complete requirements through List of Due and Demandable Accounts Payable (LDDAP). The list of documentary requirements needed for payment will be provided by the Office of Financial Management Services-Financial Resource Management Division (OFMS-FRMD) upon signing of the contract.	
	3. All payments shall be inclusive of Value Added Tax (VAT) and other lawful charges.	

## ANNEX A: HYPER-CONVERGED INFRASTRUCTURE NETWORK DIAGRAM (4 NODES)



### Note:

Bidder must state compliance to each of the provisions in the Terms of Reference/Technical Specifications, as well as to the Schedule of Requirements. The Statement of Compliance must be signed by the authorized representative of the Bidder, with proof of authority to sign and submit the bid for and in behalf of the Bidder concerned. If the Bidder is a joint venture, the representative must have authority to sign for and in behalf of the partners to the joint venture. All documentary requirements should be submitted on or before the deadline for the submission of bids.

Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment 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 provisions of **ITB Clause 3.1(a)(ii)** and/or **GCC Clause 2.1(a)(ii)**.

Conformé:

[Signature/s]

[Name of the Bidder/ Bidder's Authorized Representative/s]

[Position]

[Date]