

PB 2018-24



Republic of the Philippines  
**OFFICE OF THE OMBUDSMAN**  
 Agham Road, Diliman, Quezon City, 1104

**SUPPLEMENTAL/ BID BULLETIN NO. 3**

**RE: "REBIDDING FOR THE SUPPLY, DELIVERY, INSTALLATION, CONFIGURATION, MIGRATION AND TESTING OF DISASTER RECOVERY INFRASTRUCTURE FOR THE OFFICE OF THE OMBUDSMAN-CENTRAL OFFICE AND RECOVERY SITE"**

19 October 2018

A. All prospective bidders are hereby informed of the following responses to the requests for clarification of the prospective bidders relative to this project and the new schedule of opening of bids:

No.	Question	Answer / Remarks
1	<b>Question:</b> Is there an available FC link between Annex and Main Building?	Yes
2	<b>Question:</b> What is the height measurement between floor and ceiling of the datacenter for both Davao and Cebu (DR Site Options)?	OMB Cebu: The datacenter height is 242 cm or 95.2756 inches.  OMB Davao: The height of the DR site is 2.8m (6.9L * 4.6W * 2.8H)
3	<b>Question:</b> High-level architecture of current infrastructure (main, mirror, DR)?	Currently, the Office has no mirror and disaster recovery (DR) sites. This is the requirement of the project at hand.
4	<b>Question:</b> Assurance of reliable interconnection between sites?	Currently, OMB sites candidate for DR project (i.e, main, mirror, and DR) are interconnected via Internet Connection passing through Software Defined Wide Area Network (SDWAN) devices (i.e. SilverPeak). Thus, the reliability of these connections depend on the Offices' internet connections and SDWAN devices.
5	<b>Question:</b> Brands and models of existing core switches, available ports, and transceivers?	HP E8206 zl Switch. Other details have been inspected during the scheduled ocular inspection. However, new set of network switches are required for the project.
6	<b>Question:</b> Full detailed list of all hardware-based services (e.g. eNGAS, eSALN) and VMs to be migrated?	eNGAS- Government accounting system in Windows environment. eSALN (future requirement) <u>Summary per cluster:</u> Total no. of VMs: 51 Total no. of CPU cores: 133 Total no. of memory in GB: 418 GB Total useable storage requirements in TB: 30 TB <u>Additional requirements:</u> Provide future provision of 25 % of the total requirements for hardware resources.

7	<b>Question:</b> Will you consider an alternative for ISO/IEC 15408?	No.
8	<b>Question:</b> Current backup solution?	The current backup solution is Hitachi Data Systems – i.e. Hitachi Data Instance Director (HDID)
9	<b>Question:</b> CPU ratio 2:1?	Is this an allocated vCPUs vs. total vCPU. That is, 2:1 may give better performance depending on the environment. Recommended for compute intensive workloads.
10	<b>Question:</b> Which system are to be migrated, OS, applications, physical or virtual, network connections?	All existing VMs from existing Redhat Enterprise Virtualization (RHEV) and few physical servers, such as eNGAS in Windows environment.
11	<b>Question:</b> Existing server specifications?	<p><b>29 VMs</b> for case-related homegrown applications with 1-2vCPU@, 4-16GB@ memory, 10-560GB@ storage;</p> <p><b>1 VM</b> for SALN with 2vCPU@, 12GB memory, 2TB storage;</p> <p><b>1 VM</b> for Lexlibris off-the-shelves applications with 2vCPU@, 8GB memory, 500GB storage;</p> <p><b>3 VMs</b> for DNS and DHCP with 1-2vCPU@, 8GB@ memory, 25-30GB@ storage;</p> <p><b>2 VMs</b> for Mail Server with 2-4vCPU@, 4-16GB@ memory, 650GB-6TB@ storage;</p> <p><b>3 VMs</b> for ManageEngine off-the-shelves applications with 4vCPU@, 8GB@ memory, 500GB@ storage;</p> <p><b>1 VM</b> for Backup Server with 4vCPU, 8GB memory, 15TB storage;</p> <p><b>4 VMs</b> for FTP and PKI Server with 4vCPU@, 8GB@ memory, 200-500GB@ storage;</p> <p><b>7 VMs</b> for Reserved Servers with 4vCPU@, 8-16GB@ memory, 200-500GB@ storage;</p>
12	<b>Question:</b> Workload of 51 VMs?	30%
13	<b>Question:</b> Server IOPS requirements?	High IOPS requirement for approximately 11 out of 51 VMs
14	<b>Question:</b> Server-SAN diagram and topology?	The server-SAN diagram is a standard topology for SAN setup wherein separate network dedicated for storage (SAN) and another network for Ethernet (LAN). Moreover, network switches are redundant as fail over.
15	<b>Question:</b> GSLB?	GSLB is a device that automatically direct web applications users to the nearest or least loaded site
16	<b>Question:</b> eNGAS and eSALN?	eNGAS- Government accounting system in Windows environment. eSALN (future requirement)
17	<b>Question:</b> Connectivity of existing	Currently, OMB sites candidate for DR

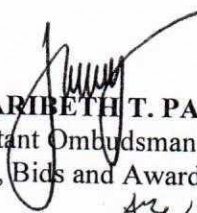
	infrastructure (related to Question 4)?	project (i.e, main, mirror, and DR) are interconnected via Internet Connection passing through Software Defined Wide Area Network (SDWAN) devices (i.e. SilverPeak).
18	<b>Question:</b> Existing backup solution?	The current backup solution is Hitachi Data Systems – i.e. Hitachi Data Instance Director (HDID)
<b>For network infrastructure</b>	<b>Bullet 1:</b> Network switch ports?	HP E8206 zl Switch. Other details have been inspected during the scheduled ocular inspection
	<b>Bullet 2:</b> Network switch connection?	<same answer above>
	<b>Bullet 3:</b> High level network diagram of Main site, mirror site, and DR site?	OMB Main and Annex building at Quezon City are mirror sites. All systems are replicated to the other mirror site which should function as HA site as well. Whereas, DR site will be in OMB Cebu or OMB Davao.
	<b>Bullet 4:</b> Model of core switch at DR site?	No network switch yet at DR site
	<b>Bullet 5:</b> Ports, transceiver connected to the core of Davao?	No core switch yet at OMB Davao
	<b>Bullet 6:</b> GSLB?	It is a server load balancer, the same answer with for Question #15
<b>For the UPS and Racks</b>	<b>Main Site: (Main or Annex Bldg)</b> a. Where is the tapping point for the UPS feeder lines? b. Can you provide electrical plans for the UPS electrical tapping point? c. What environmental sensors that will be monitored do you require? d. Can the datacenter still accommodate additional weight of the UPS system? What is the weight bearing capacity of the room?	a. The Building Administration (BA) will provide the electrical layout on the project implementation b. Yes c. Temperature, water, smoke/fire d. Yes, however, evaluation can still be conducted on the project implementation
	<b>Mirror Site: (Main or Annex Bldg)</b> a. Where is the tapping point for the UPS feeder lines? b. Can you provide electrical plans for the UPS electrical tapping point? c. What environmental sensors that will be monitored do you require? d. Can the datacenter still accommodate additional weight of the UPS system? What is the weight bearing capacity of the room?	<same answers above>
	<b>DR Site:</b> a. Where is the tapping point for	a. None

	<p>the UPS feeder lines?</p> <p>b. Can you provide electrical plans for the UPS electrical tapping point?</p> <p>c. What environmental sensors that will be monitored do you require?</p> <p>d. Can the datacenter still accommodate additional weight of the UPS system? What is the weight bearing capacity of the room?</p> <p>e. Where is the location of the condensing unit of the cooling system?</p> <p>f. What is the site utility voltage? Single to three phase system?</p> <p>g. What is the room dimension? Can you provide a floor plan for the DR site?</p> <p>h. Is there a raised flooring system?</p> <p>i. Is there a staging area in the room?</p> <p>j. Is there a service elevator for equipment hauling?</p>	<p>b. N/A</p> <p>c. Temperature, water, smoke/fire</p> <p>d. Yes. The compression strength of the slab is 5,000 psi</p> <p>e. 4<sup>th</sup> floor/roof deck, beside the DR room</p> <p>f. Utility voltage is 230V line to neutral. Three phase is 400V</p> <p>g. The room's dimension is 6.9L * 4.6W * 2.8H in meters</p> <p>h. None. The wires may run through the ceiling</p> <p>i. Yes. There is also space outside the DR room</p> <p>j. Yes</p>
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B. All prospective bidders are also hereby advised that the revised schedules for the Opening of Bids are as follows:

<p><b>DEADLINE OF SUBMISSION OF BIDS</b></p> <p><b>(Late bids shall not be accepted)</b></p>	<p><b><u>On or before October 30, 2018, 2:30 p.m.</u></b> at                  BAC Secretariat Office                  Ground Floor, Ombudsman Bldg, Agham Road, Quezon City</p>
<p><b>OPENING OF BIDS</b></p>	<p><b><u>October 30, 2018, 2:30 p.m.</u></b>                  Ombudsman Hearing Room                  Ground floor., Ombudsman Annex Bldg.</p>

Please be guided accordingly.

  
**MARIBETH T. PADIOS**  
 Assistant Ombudsman, PIEMS  
 Chairperson, Bids and Awards Committee