PHILIPPINE ECONOMIC ZONE AUTHORITY

BIDS AND AWARDS COMMITTEE
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PEZA BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BID BULLETIN No. 2021-05

SUBJECT: Procurement of a Data Center Backup and Recovery Solution for the Head Office and Public Economic Zones (PEZA-HO-2021-05)

This Supplemental Bid Bulletin No. 2021-05 is being issued to revise provisions/specifications in the Bidding Documents, to address queries/clarifications sent thru email and raised by bidders during the pre-bid conference conducted on 13 October 2021 for the aforecited project:

A. Revisions to provisions/specifications in the Biddings Documents

For complete information on the changes, in the Technical Specifications (TS), please refer to Annex A.

Opening of Bids and **Deadline of Submission of Bids** will be moved from October 25, 2021 **to October 26, 2021 at 10:00 AM** in compliance to RA 9184 (this shall apply to Section 1 Nos. 7, 9 and 10)
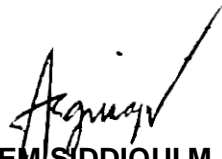
B. Response to queries/clarifications

QUERY	END-USER RESPONSE / RESOLUTION
EQUICOM, INC.	
1. What is ClearVM?	Clear VM is a hybrid cloud, virtual management platform built to simplify the deployment and maintenance of geographically dispersed servers.
2. In terms of delivery and requirement, can we request extension for delivery 60 days to 120 days?	We will allow 120 days delivery
3. What are the items that we need to Back up?	VM and Database
4. If we can see the biggest SFF available in the market is 2.4 TB, 2 U form factor 24 slot less 2 x 300 we can place 22 of 2.4 total will not reach 72TB	Please see updated Technical Specifications
5. On Maximum Storage Capacity, does it require the remaining slots are capable of being utilized?	Requirement is for expansion purposes only.

6. What about the components below? If we change model this will also change	Yes. Please see Technical Specifications
7. For Rig Support, will we stick to 6? Including power supply type? Do you prefer halogen? Titanium? Platinum? 750 Watts Platinum. Server power supply consideration 2x 750W to 1100W, 115v - 230v Platinum PSU	Please see revised Technical Specifications
8. Total number of Hypervisor Server you want to protect (ESXi host / Hyper-V)?	Hyper-V, 2 Hosts
9. Total number of sockets per host?	1
10. Total number of Virtual Machines?	54 VMs
11. Total number of physical servers they want to protect ?	4 (HO), 2(per Public Zone)
12. Rackspace available?	8U
13. Power connector if PDU or NEMA type?	PDU
14. Network port count and type required? i.e., gigabit or 10 gigabit copper/optical	Please see Technical Specifications of Bid Document
15. Will you require hardware installation services required in public zones?	No, only at the Head Office. We will require support once installation is finished at the Zones.
16. Are all the hardware to be supplied in the main office or logistics should be covered from HO to public zones?	All deliveries are at the Office.
17. We would also like to check if the attached certification for project Manager is acceptable.	Not acceptable, we require a Certified Engineer
18. Where are the prescribed bidding forms? (ex. Omnibus, Sec Cert, SLCC, NFCC, on-going projects (with or without NDA, Bid securing declaration, financial form))	Please refer to GPPB website for the latest Bidding Forms.
19. Are we also to submit a soft copy on USB even if we submit hard copies?	Please see Eligibility Requirements (3 Hard Copies (1 Original, 2 Copies –labelled as ''Copy 1'' and ''Copy 2'') , 1 Soft Copy – via USB)
20. For the SLCC. is it 50% or 100% total of the ABC?	Based on Section 5.3 of the Bidding Documents, it is 50%.

ADVANCE SOLUTIONS, INC.	
21. Backup Server – Public Zones. In the Hard Drive upon checking what was indicated requirement was LFF 3.5 but the maximum storage is SFF. May we be cleared on this?	Please see revised Technical Specifications
22. Recovery. How many servers do you need? 4 for Licenses for the backup servers?	4 for the Public Zones, (1 – Head Office, 3-CEZ, BCEZ, MEZ)

This BID Bulletin is issued this **19th** day of **October 2021** for the information and guidance of all concerned.

GM ALEEM SIDDIQUI M. GUIAPAL
Chairman
Bids and Awards Committee

Annex A

Revised Technical Specifications

QTY	Back-up Server-Head Office Specifications	
1	Form Factor	2U SFF Rackmount with Rail Kit
	Processor	1 x Intel Xeon-Silver 4114 (2.2GHz/10-core/85W)
	Memory	16GB Single Rank x4 DDR4-2666
	Hard Disk Drives	2 x 300GB SAS 12G Enterprise 15K SFF (2.5in)
		8 x 2.4TB SAS 12G Enterprise 10K SFF (2.5in)
	Maximum Storage Capacity	Up to 72TB with SFF SAS HDD(24 front + optional 6 rear)
	Expansion	1 x 12Gb SAS Expander Card Kit with Cables
	Network Controller	4 x 1gb Ethernet Port
	Battery Backup	1 x 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit
	Controller	Smart Array (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller
	Raid Support	RAID 0,1,5 & 10
	Power Supply	Minimum 2 x 750W Hot Plug Platinum Plus Power Supply Kit or Equivalent
	Supported OS	Windows Server 2019: Essentials, Standard, Datacenter Windows Server 2016: Essentials, Standard, Datacenter Windows Server 2012 R2: Essentials, Standard, Datacenter Microsoft Hyper-V Server: 2012 R2, 2016 & 2019 VMware vSphere 6.0 U3, 6.5 U2 & 6.7 U1 ClearVM: 7.6 & 8.0 Red Hat Enterprise Linux (RHEL) 7.6 w/ Kbase ** SUSE Linux Enterprise Server (SLES) 12 SP4 and 15 SP1 (includes Xen) **
	Knowledge Transfer	Complete features of the product.
	Warranty	5 years on parts and labor, 24 x 7 Onsite, with retention policy for defective media.
		Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period.
		For Backup Software, 8x5 Implementation and Onsite Support

ISO Certification	Manufactured by an ISO 9001 or ISO 9002 certified Enterprise Server manufacturing company. (supported by certified true copy of ISO certification)	
Quality Assurance	All components must be of the same brand and should be factory installed with corresponding part numbers and description that can be viewed and verified via web.	
	All servers proposed must be of the same brand.	
Bidder Qualification	1. Bidder must have the following regular and locally based employees with certification of employment.	
	a. One Project Manager	
	b. One certified server engineer for the product.	
	c. One certified backup solutions engineer	
	2. Bidder must be an authorized reseller and support provider for the items being offered.	
	3. Bidder must be a Premiere partner of proposed products	
	4. Must have a Helpdesk Support System in place to accommodate PEZA technical request.	
	5. On-site support will be at the PEZA Head Office. Winning bidder will provide Phone support to PEZA remote sites(Cavite, Mactan, Baguio)	
	6. Support availability in Cebu either thru Manufacturer or Authorized Service Provider	
	7. The winning bidder shall be responsible for all cost related service support that will address hardware problems for duration of the warranty.	

QTY	Back-up Server-Public Zones Specifications	
3	Form Factor	2U Large Form Factor With Rail Kit
	Processor	1 x Intel Xeon-Silver 4114 (2.2GHz/10-core/85W)
	Memory	1 x 16GB Single Rank x4 DDR4-2666
	Hard Disk Drives	2 x 300GB SAS 12G 15K LFF (3.5in)
		3 x 2TB SAS 12G 7.2K LFF (3.5in)
	Maximum Storage Capacity	30TB with LFF SAS HDD(8 front + optional 4 mid tray + optional 3 rear)
	Network Controller	4 x 1gb Ethernet Port
	Battery Backup	96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit
	Controller	Smart Array(16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller
	Raid Support	RAID 0,1,5 & 10

Power Supply	Minimum 2 x 800W Hot Plug Platinum Plus Power Supply Kit or Equivalent	
Supported OS	Windows Server 2019: Essentials, Standard, Datacenter Windows Server 2016: Essentials, Standard, Datacenter Windows Server 2012 R2: Essentials, Standard, Datacenter Microsoft Hyper-V Server: 2012 R2, 2016 & 2019 VMware vSphere 6.0 U3, 6.5 U2 & 6.7 U1 ClearVM: 7.6 & 8.0 Red Hat Enterprise Linux (RHEL) 7.6 w/ Kbase ** SUSE Linux Enterprise Server (SLES) 12 SP4 and 15 SP1 (includes Xen) **	
Knowledge Transfer	Complete features of the product.	
Warranty	5 years on parts and labor, 24 x 7 Onsite, with retention policy for defective media.	
	Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period.	
ISO Certification	Manufactured by an ISO 9001 or ISO 9002 certified Enterprise Server manufacturing company. (supported by certified true copy of ISO certification)	
Quality Assurance	All components must be of the same brand and should be factory installed with corresponding part numbers and description that can be viewed and verified via web.	
	All servers proposed must be of the same brand.	
Bidder Qualification	1. Bidder must have the following regular and locally based employees with certification of employment.	
	a. One Project Manager	
	b. One certified server engineer for the product.	
	2. Bidder must be an authorized reseller and support provider for the items being offered.	
	3. Bidder must be a Premiere partner of proposed products	
	4. Must have a Helpdesk Support System in place to accommodate PEZA technical request.	
	5. On-site support will be at the PEZA Head Office. Winning bidder will provide Phone support to PEZA remote sites(Cavite, Mactan, Baguio)	
	6. Support availability in Cebu either thru Manufacturer or Authorized Service Provider	

		7. The winning bidder shall be responsible for all cost related service support that will address hardware problems for duration of the warranty.

QTY	**Backup and Replication License for Head Office and Public Zones (CEZ, BCEZ, MEZ)**	
1 Lot	License	3 Years Backup and Replication License
		Perpetual license for backup and replication for upto 4 CPU sockets
	Backup and Replication Features	Solution should support back up of all operating systems that are supported by VMware, Hyper V & Nutanix AHV in a single product
		Solution should support replication of Virtual Machines for all operating systems that are supported by VMware and Hyper-V in a single product
		Solution should be capable of VM image level backup and VM host based replication to a Disaster Recovery site managed from the single console.
		2-in-1 backup and replication solution in a single product.
		Agentless protection without the need to install individual agents inside each Guest VMs.
		Support for LAN-free(SAN mode) data backup, Hot add and Network transport mode
		Support for backup and replicate thin and thick provisioned VMs for both VMware & HyperV Virtualization Platform
		Ability to utilize forever forward incremental, forward incremental & reverse incremental backup methodology.
		Ability to provide application-consistent backups and replication (utilizing MS VSS or VMware Tools).
		Support for continuous job schedule to immediately start the backup job once upon completion to provide near-Continuous Date Protection (CDP) for both VMware & HyperV Virtualization Platform
		Ability to backup to tape jobs using the same media pool which can process backup files from separate backup job simultaneously.
		Solution must be able to replicate Virtual Machines on site for high-availability or off-site for disaster recovery for both VMware & HyperV Virtualization Platform
		Ability to use failover plans that has created in advanced for built in orchestration that enable easy 1-click site failover for VMware Virtualization Platform

		Solution must be able to provide assisted failover and failback of the Virtual Machines. It must also provide intelligent mechanism which includes automated Re-IP and network mapping of VMs on DR site and a failback technology which transfers only changed blocks back to production site for both VMware & HyperV Virtualization Platform
		Ability to perform planned and unplanned failover to DR site for both VMware & HyperV Virtualization Platform
		Ability to perform replication from backup files without impact on production environment both VMware & HyperV Virtualization Platform
		Ability to configure failover plan to add VMs from replicas, move them up or down to get a boot order and set delay for each VM so that VM don't start before a previous one start up for both VMware & HyperV Virtualization Platform
		Ability to configure replication on schedule basis and "continuously" schedule for both VMware & HyperV Virtualization Platform
		Solution must able to backup latest operating system and application such as Windows Server 2016, Microsoft Application 2016 (SQL, Exchange , Sharepoint)
		Ability to store and archive backups on object storage by leveraging native object storage integration with on-premises, AWS, Microsoft Azure, IBM Cloud and multiple S3 compatible storage offers.
		Ability to create image-based backups and replicas as often as necessary with little to no impact on production using storage snapshots.
		The software should be able to perform secondary backup copy to a Cloud Server Provider location
		Agentless backup for the following applications: Active Directory, SQL, Oracle, Sharepoint and Exchange
	Recovery	Ability to perform recovery of full VM image, VM Configuration File, guest OS files and application items.
		Ability to perform Instant recovery of VM by starting up VM in production environment, directly from the native backup file without the need to perform restoration.

		Ability to perform agentless granular recovery object and container for group policy object, AD integrated DNS records and Configuration partition records
		Ability to provide agentless table level recovery of a single SQL Server database
		Ability to perform agentless quickly search individual SharePoint items, lists and permissions and restore them back into production without needing to restore the entire database
		Ability to restore individual VMs, guest files and application items from storage snapshots
	Security	Ability secure backup data and network transfers with end-to-end AES 256-bit encryption and password loss recovery on protected data without any negative impact on built-in compression and WAN acceleration data reduction ratios
		Ability to configure role based such as Backup Administrator, Restore Operator, Backup Operator and Viewer both VMware & HyperV Virtualization Platform
	Management and other capabilites	Solution should work with Microsoft Hyper-V 2008 R2 SP1, 2012, 2012 R2, 2016, 2019 / and VMware infrastructure based on version 5.x, 6.x, Nano Server as well as Nutanix AOS 5.1.1.1 or later for Paid Edition in a single product.
		Provide the ability to view and manage HyperV & VMware from a single console.
		Leverage vSphere API for Data Protection and Changed Block Tracking for VMware
		Solution should support the Disk-To-Disk-To-Tape D2D2T architecture
		Solution should support any type of Disk based storage (DAS/NAS/SAN).
		Ability to provide an abstraction layer over individual storage devices to create a single virtual poolof backup storage for backups
		Solution should be storage agnostics where customer is free to use whatever mix of production, backup or DR storage that best meets their needs – now or in the future.

		Provide a centralized web-based enterprise console to monitor and manage all the backup servers with a central console
		Included built in encryption, compression and deduplication in a single product without additional option to purchase
		Ability to create isolated environment for on-demand Sandbox with required VMs running for testing/troubleshooting. In addition, this isolated environment will be able to interact with the production environment for both VMware & HyperV Virtualization Platform
		Ability to reduce backup size and replication bandwidth usage by excluding deleted file blocks, swap, hibernation files and user specified files and folder for both VMware & HyperV Virtualization Platform
		The Solution must comply with less than 15 minutes Recovery Point Objective (RPO) and Recovery Time Objective (RTO) both VMware & HyperV Virtualization Platform
		Ability to configure network throtling in a single product for backup and replication both VMware & HyperV Virtualization Platform
		Ability to configure networks for backup and replication in a single product both VMware & HyperV Virtualization Platform
		Solution must provide automated test and verification of each backup or replica to assure recoverability in case of production failure. The verification must include VM files, OS, and Applications including custom testing using scripts for both VMware & HyperV Virtualization Platform
		Solution should be able to create test environments by running one or more VMs directly from backup or replicas inside an isolated environment for the use of testing, development or training without the need to invest in additional computing or storage for both VMware & HyperV Virtualization Platform

		Ability to automatically verify every restore point for backup and replication by start VMs in an isolated Virtual Lab and perform test such as ping test, heartbeat test and application test, perform cleanup after verification and send a report to customer for both VMware & HyperV Virtualization Platform
		No additional license is require at DR site for replication VM for both VMware & HyperV Virtualization Platform
		Integrated plug in for enterprise application such as Oracle RMAN and SAP Hana
		The solution should allow you to set the maximum acceptable I/O latency level for production datastores to ensure that backup and replication activities do not impact storage availability to production workloads.
		The solution should have a built-in bandwidth optimizer that allows to send replicas off site faster
	Trainings	Free Certification training on Administration, Configuration, and Deployment of Backup Solution for 5 Pax.
		Knowledge Transfer of features of Software.
	Support	Implementation and 8x5 On-site Support for Head Office and Cavite
		Implementation and 8x5 Remote Support for Baguio and Mactan
	Bidder Qualification	1. Bidder must have the following regular and locally based employees with certification of employment.
		a. One Project Manager
		b. One certified engineer for the product.
		2. Bidder must be an authorized reseller and support provider for the items being offered.
		3. Bidder must be a registered partner of proposed products
		4. Must have a Helpdesk Support System in place to accommodate PEZA technical request.
		5. On-site support will be at the PEZA Head Office. Winning bidder will provide Phone support to PEZA remote sites(Cavite, Cebu, Baguio)
		7. The winning bidder shall be responsible for all cost related service support that will address hardware problems for duration of the warranty.

Implementation(Hardware and Software)	Delivery Period-120 days Implementation Period - 60 days Total Project Completion - 180 days