

REPUBLIC OF THE PHILIPPINES Department of Health NATIONAL CENTER FOR MENTAL HEALTH Nueve de Febrero Street, Mandaluyong City, Philippines



BIDS AND AWARDS COMMITTEE

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SECTION VI SCHEDULE OF REQUIREMENTS

ITB NO. 043-2023

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

ITEM NO.	DESCRIPTION	QTY	TOTAL	Delivered, Weeks/Month s
ASC23 -01	Delivery, Deployment, and Commissioning of Additional Server Components to Scale the Existing Hyper-Converged Infrastructure (HCI) Servers	1	7,500,000.00	90 calendar days
	 SCOPE OF WORKS A. General Requirement The supplier shall: Design, deliver, supply, install, integrate, and configure the necessary and applicable additional server components to the existing NCMH HCI server. Ensure and guarantee that the procured and delivered additional server components are compatible and appropriate to the existing NCMH HCI servers. Configure the existing HCI virtual networking to have network segmentation through VLANs between environments such as testing, management, and production – DMZ, and LAN. Unpack, assemble/upgrade the existing Hyper Converged Platform remote office/branch office license into HCP standard licenses; Mount, install, and boot the necessary service packs, patches, service packs, and hotfixes to the existing hypervisor or operating system; Compatibility issues such as virtual machine failures, virtual networking issues, vSAN issues, vCenter issues, and hypervisor issues that arise from the scaling of physical components and resources are to be resolved by the bidder. Assess existing HCI setup and configuration. If the existing HCI server issues are discovered, the bidder will fix the problem with no additional payment.			
	 Extend the existing physical servers and hypervisor warranty and production support. During the installation of additional server components, fixes of physical hosts, and migration of virtual machines, the bidder must ensure that it will only have no or minimum business disruption and downtime. The bidder must consult the system administrator for their preferred schedule before doing any major installation and/or fixes. Bidder must provide, install and update vendor improvements/enhancements to the procured HCI servers and/or any of its server components after the date of submission of the proposal and before the date of deployment without additional cost on NCMH. Any improvement and/or supplemental to the conceptual design, quantity, and/or deemed 			

	necessary to attain functionality, integrity, security, and	
	completion of the project must be shouldered by the bidder with no additional cost.	
12.	Bidder must provide full course training on the existing HCI Technology:	
	 Curriculum-based training from a certified training center for two (2) NCMH system administrators on the following but not limited to installing, configuring, administration, management, policy creation, virtual networking, automation, backup, and troubleshooting which includes Hypervisor/Virtualization. 	
в.	TECHNICAL SPECIFICATIONS	
The	proposed additional server components will be the following:	
	dware Requirements	
Addi	tional server components will be required on each of the four (4)	
serve	er nodes.	
1.	192 GB (12x16 GB RDIMM) of DDR4 Memory.	
2. 3.	One (1) x 800GB NVMe SSD Six (6) x 1.2 TB 10K SAS HDD	
4.	Must support the existing NCMH HCI server/virtualization	
_	technology	
5.	Must include all required cables, and components needed to make the HCI servers operational after the update/upgrade.	
6.	Must supply, deliver, install and configure all the needed or	
	additional switches, transceivers, connectors, and cables to ensure proper connection.	
Soft	ware Requirements	
1.	System Architecture	
a.	The additional storage and memory will support the existing	
	virtualization software; seamlessly add the resources to the existing NCMH vSAN.	
b.	The additional storage components will not require external SAN storage and must be utilized with the existing distributed SAN,	
	including integration of existing and additional storage. This must	
	seamlessly allow data storage with two to three copies to meet	
-	fault tolerance, reliability, and disaster recovery measures.	
c.	The additional server physical components to the existing system must adopt the scale-out distributed storage architecture and can	
	support data migration and load balancing during resource expansion and reduction.	
d.	The additional resources must support seamlessly the self-serving	
	support function. System administrator, if requires to scale out the	
	computing, storage, and memory resources, only needs to access the software-defined management portal to configure additional	
	resources.	
e.	The additional server components must be discovered seamlessly	
f.	by automatic hardware discovery and configuration. Additional server components must support seamlessly the existing	
	thin provisioning while delivering the same volume read/write	
	performance as thick provisioning.	
g.	The proposed additional server components must be able to support seamlessly the existing hybrid setup.	
h.	Proposed additional server components will be integrated into the	
	existing single storage pool that will hold all the disks within the	
	existing HCI cluster to optimize the distribution of additional server resources; to ensure the performance and SLA.	
Hve	er-Converged Platform	
пур 1.	Bidder will upgrade the existing Hyper-Converged Platform (HCP)	
	remote office/branch office license into the same HCP standard licenses.	
2.	The prospective bidder must have a customer support center near	
	Mandaluyong City.	
3.	Provision of a virtualization management console that acts as a central management for hypervisor hosts.	
4.	Shall be able to configure, create, deploy and migrate virtual machines.	
5.	Can support the following but are not limited to the following	
	requirements: a. Power on/off/reset;	
	b. Restart/shutdown;	
	c. Non-disruptive migration to other nodes in the cluster (Live	
	Migration, vMotion, etc.) and; d. Web and remote console	
	d. Web and remote console	

6.	The HCP must perform live migration whether manually or		
	automatically from one live host to another without business disruption.		
	a. Moving by restarting the virtual machine to another host		
	b. Moving without rebooting the virtual machine		
7.	The HCP must support storage live migration from one live disk to		
	another.		
8.	The HCP can support x86 OSs including Windows Server		
	2003/2008 R2 and 2012, Windows 7, Windows 8, and Windows 10.		
9.	HCP licenses must be an open or volume license that is perpetual		
	and transferrable, with an active maintenance subscription for at		
	least three (3) years including upgrades, updates, and technical		
	support with at least 10 hours per weekday, with 4 business hours		
	response time through web and/or phone.		
1.	a Resiliency and Data Protection Provide a distributed storage system that supports 2/3 copies of		
1.	data.		
2.	Must support any 2 disks failure without business disruptions and		
	data corruption.		
3.	Must support at least one server/physical node failure and can be		
4.	expanded through additional nodes. Must support redundancy strategies through computing, network,		
т.	storage, power supply, and fan modules.		
5.	Must have the ability to perform stretched clusters natively for		
	RPO=0 environments.		
I.	EXPECTED DELIVERABLES		
1.	An Inception Report describing the activities, methodology, milestones, time table and resources to implement this project		
2.	768 GB, 12x16 GB RDIMM for each physical node of DDR4 memory		
3.	Four units of 800GB NVMe SSD deployed one per node.		
4.	Four sets of Six (6) 1.2 TB 10K SAS HDD		
5.	8 licenses for HCP Standard Licenses (2 licenses per physical node)		
6. II.	8 Licenses for HCP Basic Support (2 licenses per physical node) IMPLEMENTATION ARRANGEMENTS INCLUDING ROLES		
11.	AND RESPONSIBILITIES		
Α.	Within the project duration NCMH shall:		
1.	Provide a technical working committee to supervise and monitor		
-	the project.		
2. 3.	Provide a technical contact person Facilitate access to information, documents, facilities, and others		
5.	needed by the contractor to perform services.		
4.	Assist in coordinating with and issuing instructions as may be		
	necessary or appropriate to other government agencies for the		
_	prompt and effective implementation of the services.		
5. 6.	Approve the proposed working schedule of the supplier. Provide temporary ID to all personnel involved in the installation		
7.	Grant authorized representative access to premises as well as		
	equipment and all facilities located therein to perform the supplier's		
	obligations.		
8.	Make prompt review and revision, if necessary, which shall be not		
	later than ten (10) working days from receipt of the work produced.		
9.	Pay the contractor upon presentation of requisite documents, the		
	amount due him upon receipt of claims supported with documents		
	subject to acceptance by the NCMH		
	Within the Project duration the winning		
1.	Contractor/Supplier shall: Complete delivery, installation, configuration, and commissioning		
1.	within 90 days calendar from the receipt of the notice to proceed.		
2.	Perform services professionally based on industry standards and		
	always protect the interest of the government in general and		
2	NCMH in particular.		
3.	Provide a list of certified engineers/technical support team with addresses and contact numbers, involved, and other activities		
	related to the project.		
4.	Secure the NCMH permits, licenses, and approvals that are or may		
	be necessary to perform services.		
5.	Provide a chief officer or program manager who will be directly in		
	charge of managing the project and day-to-day contact personnel		
6.	in charge of operations. Submit a proposed working schedule for approval of NCMH and		
0.	secure security pass and working permit on their site.		
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 Finance that all personnel involved in the project must be in proper uniform. Dia cards backase it will be ther identification from the rest of ACMHs employees and visions. Protott be privatory of NCTI information the test perconfidential. 11. Wurranty Period and Services Period Three (3) years warranty is required on all delivered goods and shall take effect immediately after final acceptance of the project with ACMH. Product upgrades: Hardware finance on software upgrades without additional cost to NCMH. Product upgrades: Hardware finance on the test of the project with ACMH. Proventive and Remedia Services: Preventive and Remedia Services were conducted semiannually via required on all selvement access and with coordination. With NCMH System Administrators and annual on-site visits during the warranty period. Preventive maintenance services were conducted semiannually via remover access and with coordination. With NCMH System Administrators and annual on-site visits during the warranty period. Health Checks on HCL System and Server environment – Montor the hardware health and ensure that all back-end services including compute, storage, memory, networking and virtualization. Capacity Management – provider must check HCL System and Server environment and montor capacity to ensure utilization as analysis or enrors. Service Level Agreement and Montor tapacity of problems with 12 hours amount from route by NCMH. Urgent Hash index capatit. Climits were were access and during the required bay and/or maintaine. Importan No productivity impact. Within 1 hour significant user or climit impact on staff production of maintaine bay on the route on incredenting the required maintained delivery of mandates and functions. Importan No productivity impact. Within 1 hours impact and adelivery of route on incredenting the experisor i							
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NCMH PRB- ADDITIONAL SERVER COMPONENTS TO SCALE THE EXISTING HYPER-CONVERGED INFRASTRUCTURE (HCI) SERVERS CY 2023 Section VI-Schedule of Requirements Page 4 of 6

	provided equipment has been operated in normal conditions.	
с.	Quarterly reports containing information on actual performance	
C.	achieved, compared to service levels agreed upon.	
IV.		
1.	Curriculum based Training from a certified training center for two	
	(2) NCMH system administrators on the following but not limited	
	to installing, configuring, administration, management, and policy	
	creation, automation, backup, and troubleshooting of the proposed	
	Hyper-Converged Infrastructure which includes Hypervisor/Virtualization.	
v.		
1.	Must be in the ICT service for at least ten (10) years of continuous	
	existence and engagement in the business of providing ICT	
	services in the Philippines.	
2.	Must be an IT solution provider sector and must have experience	
	in HCI, Virtualization, Hypervisors, Blade Servers, and Enterprise	
_	Storage systems and equipment.	
3.	Bidder should have locally based Manufacturer Certified	
	Engineers who will do the installation, configuration, and after- sales support of all proposed equipment for virtualization, and	
	hyper-converged infrastructure.	
VI.		
	Technical Proposal	
1.	Warranty Proposal	
a.	Period: Three (3) years warranty is required on all delivered	
	goods and shall take effect immediately after final acceptance of	
.	the project with NCMH.	
b.	Product upgrades: Hardware firmware or software upgrades without additional cost to NCMH.	
с.	Provide an immediate RMA at any time the HCI equipment is not	
с.	working or under repair.	
2.	Company Profile that must show evidence that the firm:	
a.	Must be in the ICT service for at least ten (10) years of continuous	
	existence and engagement in the business of providing ICT	
	services in the Philippines.	
b.	Must be an IT solution provider sector and must have experience	
	in HCI, Virtualization, Hypervisors, Blade Servers, and Enterprise Storage systems and equipment.	
3.	List of authorized Customer support/service centers near	
5.	Mandaluyong City. The list must indicate the complete and existing	
	business address, telephone and fax number/s, email address, and	
	complete name of the contact person.	
4.	Original or downloaded from the internet technical	
	brochure/datasheet or other forms of manufacturer's un-amended	
	sales literature, unconditional statements of specification and	
	compliance issued by the manufacturer, samples, independent test data, etc.	
5.	The bidder shall submit any of the following whichever is	
	applicable:	
a.	If the bidder is the manufacturer, certify that the bidder	
	manufactures the products/items; or	
b.	If the bidder is an Exclusive/Authorized Distributor or Dealer of	
	the products/items, a Certificate or Contract from the	
	manufacturer must be provided as proof that the bidder is an Exclusive/Authorized Distributor or Dealer of the products/items;	
	or	
с.	If the bidder is an agent of the exclusive distributor or dealer the	
	following must be provided:	
	i. Certificate or Distributorship/Dealership Agreement by the	
	Manufacturer with the distributor or dealer; and	
_	ii. Contract between the distributor/dealer and the bidder.	
6.	Certification from Prospective Bidder or Supplier or Manufacturer:	
a.	Certification that the supplier shall issue a Warranty Certificate of three (3) years on parts and services upon delivery, inspection,	
	and acceptance as well as one basis for payment.	
b.	Certification from the manufacturer or local exclusive distributor	
	that the warranty shall not be affected by a change of dealer;	
с.	Certification of After Sales Service that components/parts for the	
	Backup storage solution shall be available at the authorized	
	Philippine Service Center/s for a period of at least three (3) years	
.	after the warranty period;	
d.	Certification that the supplier has the capacity for corrective and	
	preventive maintenance of the Backup Solution Storage; and that maintenance and technical support staff and engineers must be	
1	manachance and technical support stan and engineers must be	

	available locally under its direct employment and supervision and have the experience and training to al staff or engineers.
7.	
8.	Training Proposal
a	. Training proposal shall be:
	i. Curriculum based Training from a certified training center for
	two (2) NCMH system administrators on the following but not
	limited to installing, configuring, administration,
	management, and policy creation, automation, backup, and
	troubleshooting of the proposed Hyper-Converged
	Infrastructure which includes Hypervisor/Virtualization.
9.	Prior Contract Signing
a.	
	milestones, timetable, and resources to implement this project;
b.	Warranty proposal for three (3) years;
с.	Draft post-warranty comprehensive preventive maintenance
	costs including list and prices of major spare parts for the next
	three (3) years after warranty.
10.	Prior to Payment
	A fully operational, secured and, seamless scaled Hyper-
	Converged Infrastructure;
b.	One (1) soft copy and hard copy each of Operations Manual, or User's Manuals in English Language;
с.	Warranty Certificate for three (3) year on parts and services
	including the licenses; and
d.	Post warranty comprehensive preventive maintenance costs
	including list and prices of major spare parts for the next three
	(3) years after warranty.
VII.	Acceptance
Certi	icate of acceptance shall be issued upon completion of the test and
evalu	ation.
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CONFORMED BY: (Signature over printed name)

DATE: