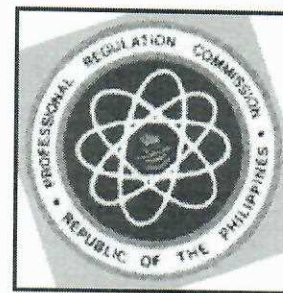# Bids and Awards Committee

Republic of the Philippines
Professional Regulation Commission
P. Paredes St., Sampaloc, Metro Manila
Facsimile: 310-0037 / email: prcbac2013@gmail.com

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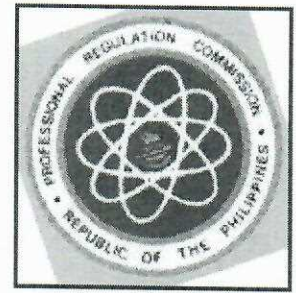Member

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Member

Section VII. Technical Specifications

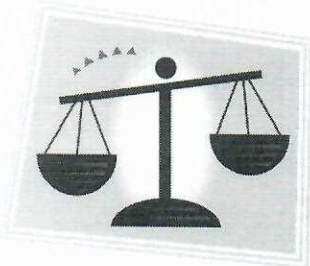| Item	Specifications
1	**PROCUREMENT FOR THE SUPPLY, DELIVERY, INSTALLATION, AND IMPLEMENTATION OF VIRTUALIZATION SOFTWARE LICENSE FOR TWO (2) NEW PHYSICAL SERVERS AND UPDATE OF SUPPORT AND SUBSCRIPTION OF VIRTUALIZATION SOFTWARE LICENSE FOR FOUR (4) EXISTING PHYSICAL SERVERS** **1. REQUIREMENTS OF THE SUPPLIER** By accepting the Terms of Reference (TOR), the Supplier confirms that their company meets the following conditions: 1.1. Has extensive experience in the supply and installation of servers and virtual environments in small to medium businesses; 1.2. Has the capacity and capabilities to supply, implement, and support product and services; 1.3. Is fully committed to undertake this engagement in accordance with the scope of work defined and any instructions issued by the Commission, where necessary; 1.4. Will maintain professional independence through the duration of the engagement; 1.5. Must have a Certified advance professional (engineer) or its equivalent on the offered solution; and 1.6. Must be an Enterprise Solution Provider (Reseller) by its offered solution **2. DELIVERABLES** 2.1. Supply, installation, and configuration of the following: 2.1.1. Virtualization systems software 2.1.2. Shared storage 2.2. Documentation, manual, warranty, certificate training **3. SCOPE OF WORK** PRC has an existing infrastructure which includes hardware and software that could be utilised as well for this project. Technical specifications provided in Addendum include existing setup to be used as a guide for interested suppliers. 3.1. Supply of virtualization, backup, and other necessary software 3.2. Installation and make operable virtualized environment 3.3. Migrate existing servers and data to the related virtual server 3.4. Migrate users and domain 3.5. Document all systems and provide documentation to PRC 3.6. Work with the chief of ICT Service to resolve unplanned issues 3.7. All pricing should reflect government and corporate discounts where applicable 3.8. Provide on-site engineer during the implementation of the project.

4. SCHEDULE OF REQUIREMENT

4.1. **DELIVERY:** 30 days upon Notice to Proceed

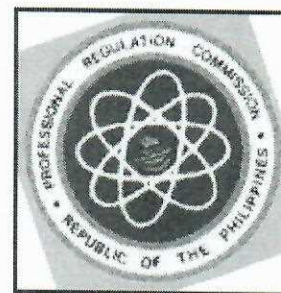4.2. **Migration (Installation, configuration and setup):** 30 days upon Notice to Proceed

5. TECHNICAL SPECIFICATION

Item	Specification
SOFTWARE	
A. Title 1	
Server Utility Software - Head Office	
General Requirement	Specification
Base License	Hypervisor license update for 4 Host Servers with total of 8 processors and new license for 2 Host Server with a total of 4 processors with integrated Software Management for Virtual Infrastructure and 1-year 8x5 subscription remote support
Management	Must be able to discover and provide inventory of the whole virtualized environment through single window
	Must be able to convert, create and deploy VMs
	Must be able to clone VMs and create templates
	Should be able to manage health, efficiency and risk in terms of computer resources of each Virtual Machine
Performance	Must be capable of enabling abstraction for external storage (SAN and NAS) devices making them VM-aware.
	Must be able to allow common management across storage tiers and dynamic storage class of service automation via a policy-driven control plane.
Recoverability	Must be able to back-up image level virtual machines for ease recoverability
	Must support snapshots
	Must be able to support array agnostic replication of Virtual machine data over LAN or WAN
Security	Must be able to create virtual switches that have VLANs for network segregation and can span across multiple hosts
	Must be able to leverage agent-less anti-virus solution to offload AV processing from the virtual machines
Features	Live migration of at least 8 Virtual Machines from 1 Host Server to another without downtime
	Should be able to create forecast on the average number of VM's to create based on the unused compute resources or additional host server
	Should be capable to restart all Virtual Machines from failed Host Server to another Host Server during hardware failure
	Must be able to avoid application downtime for planned storage maintenance by migrating live virtual machine disk files across storage arrays.
	Must be able to deliver storage-efficient backups through patented variable length deduplication, rapid recovery and WAN-optimized replication for DR. Its application integration and simple user interface makes it an easy and effective backup tool for the hypervisor.
	Creation of Virtual Machine image from one Host Server to another for no downtime during hardware failure of the primary Host Server

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| | | Built-in Back-up Software and Virtual Machine Remote Replication to another Virtual Infrastructure | | | |

6. ADDENDUM
6.1. CURRENT SERVER ENVIRONMENT

	SERVER NAME	SERVER ROLE	OS	MEMORY	HARDWARE MODEL
1	NEW WEBSITE	CURRENT PRC WEBSITE	WINDOWS SERVER 2012 (64 bit)	1TB	IBM System x3650 M4
2	WEBSERVER1	OLD PRC WEBSITE	WINDOWS SERVER 2012 (64 bit)	64GB	IBM System x3650 M4
3	DATABASE	DATABASE SERVER	WINDOWS SERVER 2012 (64 bit)	1TB	IBM System x3650 M4
4	LERISAPP1	OLD APPLICATION SERVER (LERIS SYSTEM)	WINDOWS SERVER 2012 (64 bit)	32GB	IBM System x3650 M4
5	LERISDB_NEW	NEW APPLICATION SERVER (LERIS SYSTEM)	WINDOWS SERVER 2012 (64 bit)	32GB	IBM System x3650 M4
6	ONLINE.PRC.GOV.PH	PRC ONLINE	WINDOWS SERVER 2012 (64 bit)	1.5TB	IBM System x3650 M4
7	ONLINE	PRC ONLINE	WINDOWS SERVER 2012 (64 bit)	64GB	IBM System x3650 M4
8	CPDASDBSVR1	CPDAS ONLINE SERVER	WINDOWS SERVER 2012 (64 bit)	32GB	IBM System x3650 M4
9	FIREWALL	PRC FIREWALL	WINDOWS SERVER 2012 (64 bit)	32GB	IBM System x3650 M4
10	FW_PRC	PRC FIREWALL	WINDOWS SERVER 2012 (64 BIT)	8GB	IBM XSERIES_3550
11	IMAGES_WEBAPP	IMAGE SERVER	WINDOWS SERVER 2012 (64 BIT	16GB	IBM XSERIES_3550
12	NGAS	NGAS SERVER	WINDOWS SERVER 2012 (64 BIT)	32GB	IBM XSERIES_3550
13	PRC-NGAS-old	OLD NGAS SERVER	WINDOWS 2000 ADVANCE SERVER	8GB	IBM XSERIES_3550
14	SYNC-PC	SYNC SERVER	WINDOWS 7 (32 BIT)	4GB	IBM XSERIES_3550
15	PRC-ICTProjSrv	ICT Project	WINDOWS SERVER 2008 (64 BIT)	4GB	IBM eSERIES_460
16	PRCDNS	DNS SERVER	WINDOWS SERVER 2012 (64 BIT)	4GB	IBM eSERIES_460
17	PRC vCenter Server	VCenter Server	WINDOWS SERVER 2012 (64 BIT)	1GB	IBM System x3650 M2

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18	vSphere Replication Appliance	Replication Appliance	SUSE Linux Enterprise 11 (64 BIT)	4GB	IBM XSERIES_336

6.2. BRAND NEW SERVER FOR VIRTUALIZATION

	BRAND NAME	NO. OF CPU	MEMORY	HDD
1	LENOVO ThinkSystem SR650	2 X 2.1 Ghz	4 x 64GB DDR4	3 X 1.2TB SAS
2	LENOVO ThinkSystem SR550	2 X 2.2 Ghz	4 X 8 GB DDR4	4 X 1TB SAS

7. OTHERS

7.1. Training

As part of the virtualization implementation, PRC would like to ensure that training is provided to key personnel involved in supporting the virtual environment and the use of its features.

7.1.1. Following the successful completion of the project, the vendor is required to provide a minimum of 10 days of on-site training on the proper configuration, daily operation, and maintenance of the system

7.1.2. The training will be for individuals who work directly for the ICT Service. The vendor will provide a minimum of 2 copies of all installation, configuration, and/or training materials. This includes any and all materials offered by the vendor deemed to be helpful in the day to day operations and management of the system.

7.2. Maintenance and Support

Following the successful completion of the project, the vendor is required to provide the following support information regarding technical support and other vendor services.

7.2.1. 1-year on-site support with 24 x 7 coverage and 4-hour response time.

7.2.2. Lead technical person should be a Manufacturer Certified Professional.

7.2.3. Materials describing the process for reporting a hardware and or software failure in any of the components of the proposed system.

7.2.4. The methods available for contacting tech support (phone, email, website, etc.) including escalation procedures.

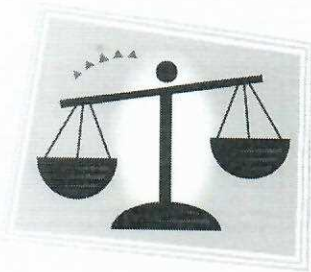7.2.5. Standard warranty and maintenance for each of the components proposed.

7.2.6. Upgrade path for management software and any annual support fee for the software.

7.3. Documentation

Following completion of the project, the vendor is required to provide the following documentation regarding the scope of the project.
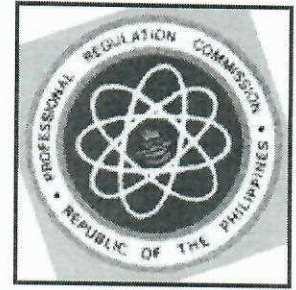
7.3.1. Written documentation and diagramming of this project. The documentation should consist of the following:

7.3.1.1. **DETAILED TECHNICAL REPORT.** A document developed for

BIDDING DOCUMENT
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the use of technical staff which discusses: the scope, approaches employed, diagram of topography, deviations from original plan, etc.

7.3.1.2. **EXECUTIVE SUMMARY REPORT.** A document developed to summarize the scope, approach, and results, in a manner suitable for senior management.

1. Compliance with the statements 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.

2. 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.

3. 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).

ACKNOWLEDGMENT AND COMPLIANCE WITH THE
TERMS OF REFERENCE FOR THE PROCUREMENT FOR THE SUPPLY, DELIVERY, INSTALLATION, AND IMPLEMENTATION OF VIRTUALIZATION SOFTWARE LICENSE FOR TWO (2) NEW PHYSICAL SERVERS AND UPDATE OF SUPPORT AND SUBSCRIPTION OF VIRTUALIZATION SOFTWARE LICENSE FOR FOUR (4) EXISTING PHYSICAL SERVERS FOR CY 2019

_____
SIGNATURE OVER PRINTED NAME
OF AUTHORIZED REPRESENTATIVE,
DESIGNATION AND PRINTED NAME OF COMPANY