



Republic of the Philippines
Professional Regulation Commission
Bids and Awards Committee
Central Office

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Section VII. Technical Specifications

Procurement for the Supply, Delivery, Installation, and Configuration of Storage Area Network with Expansion Storage and Switch for Server Virtualization Infrastructure Project (Hardware Refresh) – Rebid

I. Storage Area Network (SAN)

Quantity	1 unit
Type	Hybrid Flash Array
Form Factor	2U 24 Drives
Storage Drive	28x 2.4TB 10K 2.5"SAS HDD
Maximum Raw Capacity	Supports up to 1.47PB
Maximum Expansion	Up to 3 expansions
IOPS	100,000 IOPS
Controller System Memory	16 GB per system (8 GB per controller)
Host Connectivity	8x 10Gb iSCSI/16GB FC Universal SFP+ Module with 8x 5m LC-LC OM3 MMF Cable
Host Interface Card	2x 32Gb FC, 4 ports
Power Supply	Two redundant hot-swap 913 W (100 - 240 V) Platinum AC power supplies
Accessories	Storage USB Cable, Micro USB, Storage Rack Mount Kit 2U24
Power Cable	2x 4.3m, 13A/100-250V, C13 to C14 Rack Power Cable
Compatibility	Must be compatible with existing Virtualization Software of PRC

II. Expansion Storage

Quantity	1 unit
Form Factor	2U 24 Drives
Storage Drive	24x 2.4TB 10K 2.5"SAS HDD
Expansion Cable	4x 1m External MiniSAS HD 8644/MiniSAS HD 8644 Cable
Power Supply	Two redundant hot-swap 913 W (100 - 240 V) Platinum AC power supplies
Power Cable	2x 4.3m, 13A/100-250V, C13 to C14 Rack Power Cable
Compatibility	Must be same brand and compatible with the Storage Area Network (SAN)

II. Top-of-Rack Switch

Type	Layer 3 Switch
Ports	24-port 10/100/1000 BaseT ports; 4x 1G/10G/25G/50G* SFP ports; 1x USB-C Console Port; 1x OOBM port; 1x USB Type A Host port
Latency	1Gbps: 2.28µSec, 10Gbps: 1.46µSec, 25Gbps: 1.90µSec, 50Gbps: 3.49µSec
Throughput	334 Mpps



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Switching capacity	448 Gbps
Stacking capabilities	Up to 10 switches per stack
Accessories	2x 10G SFP+ to SFP+ 1m Direct Attach Copper Cable

OTHER REQUIREMENTS AND QUALIFICATIONS

- Supplier/Bidder must provide a three (3)-year managed service which includes the following:
 - Unlimited email, phone, and remote support for any security issues related to the deployed storage and network switch;
 - 5-incident onsite support per year with same day dispatch of Technical Engineer if problem can't be resolved remotely;
 - 24x7 support coverage with 4-hours remote or phone response time;
 - One-time implementation includes Assembly, Power-up, Rack Installation, Disk Configuration for Data Availability and Data Loss Protection (depends on Disk Storage Technology), Volume and LUN Creation only for SAN Storage and Expansion Storage; and
 - Rack installation, Interface configuration, Management configuration, VLAN configuration, Access and Trunk Port Configuration, Routing configuration, LACP, Spanning-Tree Configuration for Top of Rack Switch.
- On - site support service, and not carry-in to service centers, will be provided by Supplier on the Next two (2) Business Day (within 48 hours) after final remote diagnosis.
- Bidder must submit the following certificates together with the other technical eligibility requirements (**Technical Component Envelope**):
 - Manufacturers Certificate, and that the products being offered is available and serviceable for at least 5 years;
 - Bidder must submit Certification of at least Two (2) VMware Certified Advance Professional.

WARRANTIES

- The Supplier shall be obligated to provide a three (3)-year warranty on the parts and services.
- The warranty shall commence upon the issuance of Notice of Acceptance by the End-user.

**ACKNOWLEDGEMENT AND COMPLIANCE WITH THE TERMS OF
REFERENCE FOR THE PROCUREMENT FOR THE SUPPLY, DELIVERY,
INSTALLATION, AND CONFIGURATION OF STORAGE AREA NETWORK
WITH EXPANSION STORAGE AND SWITCH FOR SERVER VIRTUALIZATION
INFRASTRUCTURE PROJECT (HARDWARE REFRESH) – REBID**

Signature over Printed Name of Authorized Representative

Designation: _____

Name of the Company: _____