



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

P. Paredes St., Sampaloc, Metro Manila
Tel. Fax: 5-310-0037
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Section VII. Technical Specifications

SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF STORAGE AREA NETWORK WITH EXPANSION STORAGE AND SWITCH FOR SERVER VIRTUALIZATION INFRASTRUCTURE PROJECT (HARDWARE REFRESH)

Quantity: One (1) unit

The supplier/bidder must be able to provide the following minimum specifications:

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

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)



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

Additional Requirements:

- Supplier 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.
 - Five (5)-incident onsite support per year with same day dispatch of Technical Engineer if the problem cannot be resolved remotely.
 - 24x7 support coverage with four (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.
 - 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, shall be provided by Supplier on the Next two (2) Business Day (within 48 hours) after final remote diagnosis.
- Bidders must submit the following certificates together with the other technical eligibility requirements (TECHNICAL COMPONENTS ENVELOPE):
 - Manufacturers Certificate and that the products being offered is available and serviceable for at least 5 years; and
 - 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 warrant on the parts and services.
- The warranty shall commence upon issuance of the Notice of Acceptance by the end-user.

Delivery

The delivery shall be completed within seventy-five (75) calendar days from receipt of the signed Notice to Proceed.



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1. Compliance with the statements must be supported by evidence in a Bidder's Bid and cross-referenced to that evidence. Evidence shall be in the form of the manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, brochures, 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 bidder's 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

**ACKNOWLEDGMENT AND COMPLIANCE WITH THE TERMS OF REFERENCE
FOR THE PROCUREMENT OF SUPPLY, DELIVERY, INSTALLATION AND
CONFIGURATION OF STORAGE AREA NETWORK WITH EXPANSION
STORAGE AND SWITCH FOR SERVER VIRTUALIZATION
INFRASTRUCTURE PROJECT**

Signature over Printed Name of Authorized Representative
Designation: _____
Name of the Company: _____