



**DOST-ASTI Bids and Awards Committee
Invitation to Bid (Public Bidding)**

IB No:	23-08-4507	Date:	September-04-2023
PR No:	QCS-23-08-17335	Date:	August-10-2023
Source of Funds:			
Total ABC:	Php 25,000,000.00		
Time, Date & Venue of Pre-bid Conference:	September 14, 2023, 9:00 AM at Videoconferencing (MS Teams)		
Time and Date of Submission of Bids:	September 26, 2023, 09:00 AM		
Time, Date & Venue of Opening Bids:	September 26, 2023, 9:30 AM at DOST-ASTI and Videoconferencing (MS Teams)		
Date of availability of Complete Set of Documents:	September 07, 2023		
Deadline of Potential Bidder's Clarifications:	September 16, 2023		
Deadline of ASTI's Supplemental Bid Bulletin:	September 19, 2023		
Delivery Schedule:			

The *Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI)*, through its Bids and Awards Committee (BAC), hereby invites all interested Bidders to submit their bids for the *item/s* listed below. *Section II. Instructions to Bidders (ITB) of the DOST-ASTI Bidding Documents provides information necessary for bidders to prepare responsive bids, in accordance with the requirements of DOST-ASTI. The ITB likewise provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and award of contract.*

Bidding will be conducted through open competitive bidding procedures *using a non-discretionary "pass/fail" criterion as specified in the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.*

A complete set of *DOST-ASTI Bidding Documents may be acquired by interested Bidders on the date and address given on this document, and upon payment of the applicable fee, pursuant to the latest Guidelines issued by the Government Procurement Policy Board. Further, the DOST-ASTI Bidding Documents may be accessed through the DOST-ASTI website (<https://asti.dost.gov.ph/>).*

For further inquiries, *you may contact the DOST-ASTI BAC Secretariat at telephone number +63 2 8249-8500 / +63 2 8426-9755 local 1206/1212 or send your message to bac-sec@asti.dost.gov.ph .*

Respectfully,

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>One (1) Lot Compute and Storage Servers</p> <p>1. General Overview</p> <p>1.1. The Advanced Science and Technology Institute is seeking qualified and competent suppliers that can satisfy the requirements for the supply and delivery of one (1) lot compute and storage servers.</p> <p>1.2. The approved budget for the contract is inclusive of all applicable government taxes and service charges.</p> <p>1.3. The technical specifications indicated herein are minimum requirements, unless otherwise specified.</p> <p>1.4. All equipment and other components must be compatible with or can be integrated with the current</p>	1	lot	25000000.00	25,000,000.00

system/ setup of the computing facility.

2. Technical Specifications

2.1. CPU Server

2.1.1. Number of Units: Seven (7)

2.1.2. Processor

2.1.2.1. Count: 4

2.1.2.2. Cores: 32

2.1.2.3. Threads: 64

2.1.2.4. Base Clock: 2.00Ghz

2.1.2.5. Max Turbo Frequency: 3.20 GHz

2.1.2.6. Cache: 48MB

2.1.3. Memory: 32x 32GB 3200MHz DDR4 ECC
Registered DIMM Module

2.1.4. Storage

2.1.4.1. 3x 240Gb SATA3 2.5IN

2.1.4.1.1. MTBF: 2M hours

2.1.5. Network

2.1.5.1. 4x SFP+ 10G Ethernet

2.1.5.2. 2x GbE RJ45 OOB Management

port

2.1.6. Formfactor: Twin Node 2U Rackmount

2.1.7. Power: 2200W Redundant Power Supplies
with PMBus

2.1.8. Server Management Features

2.1.8.1. Redfish support

2.1.8.2. Web based Dashboard

2.1.8.3. JAVA Based Serial Over LAN

2.1.8.4. KVM over HTML5

2.1.8.5. Sensor Monitor

2.1.8.6. Sensor Reading History Data

2.1.8.7. FRU Information

2.1.8.8. Hardware Inventory

2.1.8.9. Fan Profile

2.1.8.10. System Firewall

2.1.8.11. Power Consumption

2.1.8.12. Power Control

2.1.8.13. LDAP / AD / RADIUS Support

2.1.8.14. Backup & Restore Configuration

2.1.8.15. Remote BIOS/BMC/CPLD

Update

2.1.8.16. Event Log Filter

2.1.8.17. User Management

2.1.8.18. Media Redirection Settings

2.1.8.19. PAM Order Settings

2.1.8.20. SSL Settings

2.1.9.21. SMTP Settings

2.2. Flash Storage Server

2.2.1. Number of units: Five (5)

2.2.2. Processor

- 2.2.2.1. Count: 2
- 2.2.2.2. Cores: 24
- 2.2.2.3. Threads: 48
- 2.2.2.4. Base Clock: 2.65 GHz

2.2.3. Memory: 16x 8GB 3200MHz DDR4 ECC RDIMM

2.2.4. Storage

2.2.4.1. 2x 200GB SATA SSD

2.2.4.1.1. MTBF: 2M hours

2.2.4.2. 24x 3.84Tb PCIe Gen4 NVMe U.2 SSD

2.2.4.2.1. MTBF: 2M hours

2.2.5. Network

2.2.5.1. 2x 200Gb QSFP56 HDR Infiniband port

2.2.5.2. 2x 10G SFP+ port

2.2.5.3. 1x GbE RJ45 OOB Management port

2.2.6. Formfactor: 2U Rackmount

2.2.7. Power: 1600W 80 Plus Redundant Power Supply

2.2.8. Server Management Features

- 2.2.8.1. Redfish support
- 2.2.8.2. Web based Dashboard
- 2.2.8.3. JAVA Based Serial Over LAN
- 2.2.8.4. KVM over HTML5
- 2.2.8.5. Sensor Monitor
- 2.2.8.6. Sensor Reading History Data
- 2.2.8.7. FRU Information
- 2.2.8.8. Hardware Inventory
- 2.2.8.9. Fan Profile
- 2.2.8.10. System Firewall
- 2.2.8.11. Power Consumption
- 2.2.8.12. Power Control
- 2.2.8.13. LDAP / AD / RADIUS Support
- 2.2.8.14. Backup & Restore

Configuration

2.2.8.15. Remote BIOS/BMC/CPLD

Update

- 2.2.8.16. Event Log Filter
- 2.2.8.17. User Management
- 2.2.8.18. Media Redirection Settings
- 2.2.8.19. PAM Order Settings
- 2.2.8.20. SSL Settings
- 2.2.8.21. SMTP Settings

2.2.9. OS: No OS

3. Accessories

3.1. CPU Server Accessories

- 3.1.1. 4x 10G SR-SFP+ transceiver
- 3.1.2. 4x 15-20M LC-LC Multimode fiber cable
- 3.1.3. Rack railing kits
- 3.1.4. 2x 0.5-1M c13-c14 power cable

3.2. Flash Storage Server Accessories

- 3.2.1. 2x 10G SR-SFP+ transceiver
- 3.2.2. 2x 1-5M QSFP56 Infiniband HDR Direct attached copper cable
- 3.2.3. 2x 15-20M LC-LC 10Gb Multimode fiber cable
- 3.2.4. Rack railing kits
- 3.2.5. 2x 0.5-1M c13-c14 power cable

3.3. Additional Components

3.3.1. 31 units, RAID Controller

- 3.3.1.1. IO Controller: SAS 2208 - SAS SATA Raid Controller
- 3.3.1.2. Model No.: SAS 9361-8I
- 3.3.1.3. Product Type: SAS Controller
- 3.3.1.4. Host Interface: PCI EXPRESS

3.0 X8

3.3.1.5. Data Transfer Rate: Up to 768 MBPS Per Port

3.3.1.6. Interfaces: Serial Attached SCSI (SAS), SERIAL ATA/600

3.3.1.7. Raid Supported - Raid Levels: 0, 1, 5, 6, 10, 50, 60

3.3.1.8. Standard Memory: 1 GB DDR3 SDRAM

3.3.1.9. Ports: 2 X SFF-8087 6GB/S SAS - MINI-SAS

3.3.1.10. Internal Height: 2.5 - Width: 6.6

3.3.1.11. Form Factor: Low-profile plug-in

3.3.1.12. Cache protection: Includes Cache Vault flash cache protection

3.3.2. 30 units, Internal Mini-SAS SFF-8087 to Mini-SAS High Density HD SFF-8643

3.3.2.1. Speed: 12Gb/s

3.3.2.2. Length: 50cm-80cm

3.3.3. 20 units, 2.5" U.2 NVMe to PCIe adapter

3.3.3.1. Type: PCI-E Riser

3.3.3.2. Hard disk compatible: U.2 SSD, SAS SSD, SATA 7+15 SSD, 2.5-inch solid state drive

3.3.3.3. Support Card Slot: PCIE X4 Compatible With X8/X16

3.3.3.4. Transmission Bandwidth: 32GT/s

3.3.3.5. Operating system: Linux, Fedora, SUSE, Ubuntu, Red Hat native drivers support PCIe NVMe

3.3.3.6. Feature: Compliant with PCI Express specification revision v3.0; Backward

compatible with PCIE V2.0 and V1.0 motherboards;
Supports one U.2 SSD drive; U.2 SFF-8639 SSD gets
3.3v power from motherboard PCIe BUS slot.

3.3.4. 20 units, 16TB SAS Drive

3.3.4.1. Interface: SAS 12Gb/s

3.3.4.2. Capacity: 16 TB

3.3.4.3. RPM: 7200 RPM

3.3.4.4. Cache: 256MB

3.3.4.5. Average Latency: 4.16ms

3.3.4.6. Form Factor: 3.5" - Height
(maximum): 26.11 mm - Width (maximum): 101.85 mm
- Length (maximum): 147 mm

3.3.5 45 units 15-20M LC-LC OM3 10Gb
Multimode fiber cable

3.3.6 3 units 1-5M QSFP56 Infiniband HDR
Direct attached copper cable

4. Warranty and After-sales Support

4.1. Supplier warrants the items against defects in
manufacturing and shipping and delivery issues.

4.2. Defective and incorrect items shall be replaced.

4.3. Two (2) - year warranty that covers defects in
materials and workmanship.

4.4. Five percent (5%) warranty security in the form
of either retention money or special bank guarantee.

4.5. End-user must be able to request technical
support by phone, email or through a website.

4.6. Onsite technical support may be requested for
special cases or critical severity issues.

4.6.1. Four (4) business hours, and updates
every 3 business days for critical severity issues that
impact a lot of staff.

4.6.2. Eight (8) business hours, and updates
every 5 business days for high severity issues that
incur serious degradation to application performance
or functionality.

4.6.3. Twenty-four (24) business hours, and
updates by request for medium severity issues that
moderately impact user operations.

4.6.4. Forty-eight (48) business hours, and
updates by request for low priority issues such as
inquiries or issues with limited impact to user
operations.

5. Payment and Delivery Terms

5.1. The price of bid must be inclusive of government
taxes and additional fees.

5.2. Government terms, payment upon complete
delivery.

5.3. Delivery of goods shall be made by the supplier
within sixty (60) calendar days upon issuance of Notice
to Proceed.

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 25,000,000.00

RESERVATION CLAUSE

The Advanced Science and Technology Institute reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.