



**ASTI-FM 03-10
REV 4/ 9 MAR 2022**

**DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION**

Kind of Procurement Activity:	Negotiated Procurement:Small-value Procurement		
Deadline of Submission of Bids:	May-10-2024, 2:00 PM		
RFQ No.:	24-05-4797	Date:	May-03-2024
PR No.:	GAA-24-04-19066	Date:	April-12-2024

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.

Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.

Thank you.

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>Network Attached Storage (NAS) - Rackmount 1U, 4-Bay, Diskless, 2103/1074 MB/s R/W</p> <p>1. Background / Objectives.</p> <p>1.1. Storage device for production projects and files accessible internally through a Local Area Network (LAN) or externally through a Wide Area Network (WAN).</p> <p>1.2. Specifications indicated herein are minimum requirements, unless otherwise stated.</p> <p>1.3. Offers of equivalent or better specifications are acceptable.</p> <p>2. Functional / Technical Specifications.</p> <p>2.1. Hardware.</p> <p>2.1.1. CPU.</p> <p>2.1.1.1. CPU Model: AMD Ryzen V1500B.</p> <p>2.1.1.2. CPU Quantity: 1.</p> <p>2.1.1.3. CPU Architecture: 64-bit.</p> <p>2.1.1.4. CPU Frequency: 4-core 2.2 GHz.</p> <p>2.1.1.5. Hardware Encryption Engine (AES-NI).</p> <p>2.1.2. Memory.</p> <p>2.1.2.1. System Memory: 2 GB DDR4 ECC SODIMM.</p> <p>2.1.2.2. Memory Module Pre-installed: 2 GB (2 GB x 1).</p>	1	unit	95000.00	95,000.00

2.1.2.3. Total Memory Slots: 2.
2.1.2.4. Maximum Memory Capacity: 32 GB (16 GB x 2).

2.1.3. Storage.

2.1.3.1. Drive Bays: 4.
2.1.3.2. Maximum Drive Bays with (compatible) Expansion Unit: 8.
2.1.3.3. Compatible Drive Type.
2.1.3.3.1. 3.5-inch SATA HDD.
2.1.3.3.2. 2.5-inch SATA SSD.
2.1.3.4. Hot Swappable Drive.

2.1.4. External Ports.

2.1.4.1. RJ-45 1GbE LAN Port: 4 (with Link Aggregation / Failover support).
2.1.4.2. USB 3.2 Gen 1 Port: 2.
2.1.4.3. eSATA Port: 1.

2.1.5. PCIe.

2.1.5.1. PCIe Expansion: 1 x Gen3 x8 slot (x4 link).

2.1.6. Appearance.

2.1.6.1. Form Factor (RU): 1U.
2.1.6.2. Size: 44 mm Height x 480 mm Width x 518.6 mm Depth.
2.1.6.3. Weight: 8.0 kg.

2.1.7. Others.

2.1.7.1. System Fan: 40 mm x 40 mm x 2 units.
2.1.7.2. Fan Speed Mode.
2.1.7.2.1. Full-speed Mode.
2.1.7.2.2. Cool Mode.
2.1.7.2.3. Quiet Mode.
2.1.7.3. Power Recovery.
2.1.7.4. Noise Level: 38.8 dB(A).
2.1.7.5. Scheduled Power On/Off.
2.1.7.6. Wake on LAN/WAN.
2.1.7.7. Power Supply Unit/Adapter: 150 W.
2.1.7.8. Redundant Power Supply.
2.1.7.9. AC Input Power Voltage: 100 V to 240 V AC.
2.1.7.10. Power Frequency: 50/60 Hz, Single Phase.

2.1.8. Power Consumption:

2.1.8.1. 47.69 W (Access).
2.1.8.2. 16.7 W (HDD Hibernation).

2.1.9. British Thermal Unit.

2.1.9.1. 162.83 BTU/hr (Access).
2.1.9.2. 57.02 BTU/hr (HDD Hibernation).

2.1.10. Certification.

2.1.10.1. FCC
2.1.10.2. CE
2.1.10.3. BSMI
2.1.10.4. VCCI
2.1.10.5. RCM
2.1.10.6. UKCA
2.1.10.7. EAC
2.1.10.8. CCC
2.1.10.9. KC

2.1.10.10. UL

2.1.11. Environment.

2.1.11.1. RoHS compliant.

2.2. Software.

2.2.1. Storage Management.

2.2.1.1. Maximum Single Volume Size: 108 TB.

2.2.1.2. Maximum Internal Volume Number: 64.

2.2.1.3. SSD Read / Write Cache.

2.2.1.4. SSD TRIM.

2.2.1.5. Supported RAID Type

2.2.1.5.1. Hybrid RAID.

2.2.1.5.2. Basic.

2.2.1.5.3. JBOD.

2.2.1.5.4. RAID 0.

2.2.1.5.5. RAID 1.

2.2.1.5.6. RAID 5.

2.2.1.5.7. RAID 6.

2.2.1.5.8. RAID 10.

2.2.1.6. RAID Migration.

2.2.1.6.1. Basic to RAID 1.

2.2.1.6.2. Basic to RAID 5.

2.2.1.6.3. RAID 1 to RAID 5.

2.2.1.6.4. RAID 5 to RAID 6.

2.2.1.7. Volume Expansion with Larger HDDs.

2.2.1.7.1. Hybrid RAID.

2.2.1.7.2. RAID 1.

2.2.1.7.3. RAID 5.

2.2.1.7.4. RAID 6.

2.2.1.7.5. RAID 10.

2.2.1.8. Volume Expansion by Adding a HDD.

2.2.1.8.1. Hybrid RAID.

2.2.1.8.2. JBOD.

2.2.1.8.3. RAID 5.

2.2.1.8.4. RAID 6 (with Expansion Unit).

2.2.1.9. Global Hot Spare Supported RAID Type

2.2.1.9.1. Hybrid RAID.

2.2.1.9.2. RAID 1.

2.2.1.9.3. RAID 5.

2.2.1.9.4. RAID 6 (with Expansion Unit).

2.2.1.9.5. RAID 10 (with Expansion Unit).

2.2.2. File System.

2.2.2.1. Internal Drives.

2.2.2.1.1. Btrfs.

2.2.2.1.2. Ext4.

2.2.2.2. External Drives.

2.2.2.3. Btrfs.

2.2.2.4. ext4.

2.2.2.5. ext3.

2.2.2.6. FAT.

2.2.2.7. NTFS.

2.2.2.8. HFS+.

2.2.2.9. exFAT.

2.2.3. File Services.

2.2.3.1. File Protocol.

2.2.3.1.1. SMB.

2.2.3.1.2. AFP.

2.2.3.1.3. NFS.

- 2.2.3.1.4. FTP.
- 2.2.3.1.5. WebDAV.
- 2.2.3.1.6. Rsync.
- 2.2.3.2. Maximum Concurrent SMB/AFP/FTP Connections: 500.
- 2.2.3.3. Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion): 2,000.
- 2.2.3.4. Windows Access Control List (ACL) Integration.
- 2.2.3.5. NFS Kerberos Authentication.

- 2.2.4. Account and Shared Folder.
- 2.2.4.1. Maximum Local User Accounts: 2,048.
- 2.2.4.2. Maximum Local Groups: 256.
- 2.2.4.3. Maximum Shared Folder: 512.
- 2.2.4.4. Maximum Shared Folder Sync Tasks: 16.

- 2.2.5. Hybrid Share.
- 2.2.5.1. Hybrid Share Folder Number: 10.

- 2.2.6. Backup.
- 2.2.6.1. Folder and package backup.
- 2.2.6.2. Entire system backup.

- 2.2.7. High availability.
- 2.2.8. Log Center.
- 2.2.8.1. Syslog events per second: 800.

- 2.2.9. Virtualization.
- 2.2.9.1. VMware ESXi 6.5 and VAAI.
- 2.2.9.2. Windows Server 2016.
- 2.2.9.3. Windows Server 2022.
- 2.2.9.4. Citrix Ready.
- 2.2.9.5. OpenStack.

- 2.2.10. General.
- 2.2.10.1. Supported Protocols: SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV.
- 2.2.10.2. Supported Browsers.
- 2.2.10.2.1. Chrome.
- 2.2.10.2.2. Firefox.
- 2.2.10.2.3. Edge.
- 2.2.10.2.4. Safari.
- 2.2.10.3. Supported Language: English, Deutsch, Francais, Italiano, Espanol, Dansk, Norsk, Svenska, Nederlands, etc.

- 2.2.11. Optional Add-on Packages.
- 2.2.11.1. Chat.
- 2.2.11.2. SAN Manager.
- 2.2.11.3. Mail Client/Server.
- 2.2.11.4. Media Server.
- 2.2.11.5. Photos
- 2.2.11.6. Snapshot Replication.
- 2.2.11.7. Surveillance Station.
- 2.2.11.8. Secure file management and collaboration.
- 2.2.11.9. Video Station.
- 2.2.11.10. Virtual Machine Manager.
- 2.2.11.11. VPN Server.

1. Warranty.
 - 1.1. 3-year hardware warranty.
2. Delivery and Payment.
 - 2.1. Delivery within 60 calendar days from issuance of Notice to Proceed (NTP).
 - 2.2. Should the delivery date deadline fall on a non-working day, such as a weekend, non-working holiday, or work suspension, then the delivery date deadline shall be adjusted to the following working day.
 - 2.3. Bid price shall be inclusive of taxes, delivery charges, and all other related fees.
 - 2.4. Payment Terms: Prescribed government terms.

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 95,000.00

GUIDELINES

A. Content and Format of Quotations

1. The Quotation/s must include the RFQ Number or the PR Number indicated above
2. Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:
 - a. Computer and electronic equipment and its accessories or peripherals
 - b. Software applications, programs, and digital licenses
 - c. Commercial off-the-shelf electronic devices or components
3. The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.
4. BIR Certificate of Registration for new DOST-ASTI suppliers.

B. Eligibility Requirements

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

For Procurement of Goods

1. Upon submission of quotation
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
2. Upon issuance of Notice of Award (NOA)
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

For Procurement of Infrastructure

1. Upon submission of quotation
 - a. Valid PhilGEPS Registration Number / Organization ID
 - b. Valid Mayor's/Business Permit
 - c. Valid PCAB License
2. Upon issuance of NOA
 - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
 - b. Income/Business Tax Return (For ABCs above P500,000.00)

**Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.*

***Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government agencies as lessors.*

****For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum Membership may be submitted in lieu of the said documents.*

C. Terms and Conditions

1. *Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;*
2. *All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;*
3. *Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and*
4. *The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.*