



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



PURCHASE ORDER

ASTI – FM 03-17
 REV 3 / 10 October 2023

Supplier:	PRONET SYSTEMS INTEGRATED NETWORK SOLUTION, INC.	PO No.:	24-06-132
Address:	3/F Hollywood Square Bldg., #33 West Ave., Brgy. Nayong Kanluran, Quezon City	PO Date:	June 18, 2024
TIN:	005-199-272-000	Mode of Procurement:	NP-53.9 Small Value Procurement

Gentleman:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	ASTI Bldg., C.P. Garcia Ave., U.P. Technology Park Complex, U.P. Campus, Diliman, Quezon City 1101	Delivery Term:	Sixty (60) calendar days upon issuance of NTP
Date of Delivery:	_____	Payment Term:	Government Terms
		Warranty Term:	_____

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	Unit	<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> <p>2.1.2.3. Total Memory Slots: 2.</p> <p>2.1.2.4. Maximum Memory Capacity: 32 GB (16 GB x 2).</p> <p>2.1.3. Storage.</p> <p>2.1.3.1. Drive Bays: 4.</p> <p>2.1.3.2. Maximum Drive Bays with (compatible) Expansion Unit: 8.</p> <p>2.1.3.3. Compatible Drive Type.</p> <p>2.1.3.3.1. 3.5-inch SATA HDD.</p> <p>2.1.3.3.2. 2.5-inch SATA SSD.</p> <p>2.1.3.4. Hot Swappable Drive.</p> <p>2.1.4. External Ports.</p>	1	P95,000.00	P95,000.00

Postal Address : ASTI Bldg., U.P. Technology Park Complex,
 CP Garcia Ave., Diliman, Quozon City 1101
 Website : www.asti.dost.gov.ph
 Email : info@asti.dost.gov.ph

Tel No. : +632 8249-8500
 +632 8426-9755

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.


	<p>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.</p> <p>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.</p> <p>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.</p> <p>1. Warranty. 1.1. 3-year hardware warranty.</p> <p>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.</p> <p>(Please see attached quotation.)</p>			
			TOTAL:	P95,000.00
(Total Amount in Words)			Ninety-Five Thousand Pesos Only	

The contract price is inclusive of taxes and other fees or charges. In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, DOST-ASTI may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.

Conforme:

Very Truly Yours,


(Signature over Printed Name of Supplier)


FRANZ A. DE LEON, Ph.D.

Director, DOST-ASTI

Digitally signed
by Bayani
Benjamin R. Larc

(Date)

Fund Cluster:	<u>01</u>	ORS / BURS No.:	<u>01101012029-06-000971</u>
		ORS / BURS Date:	<u>JUNE 19, 2029</u>
Funds Available:	<u>Php 95,000.00</u>	Amount:	<u>₱ 95,000.00</u>
 GAY CONCEPCION S. BUGAGAO Accountant III			



18 June 2024

NOTICE TO PROCEED
 ALTERNATIVE MODE OF PROCUREMENT

Ms. CHERRY ENCINARES
 Authorized Representative
PRONET SYSTEMS INTEGRATED NETWORK SOLUTION, INC.
 3/F Hollywood Square Bldg.
 #33 West Ave., Brgy. Nayong Kanluran
 Quezon City

Dear Ms. Encinares,

This Notice to Proceed is hereby issued for the following contract details:

Contract Name	: Supply and Delivery of One (1) Unit Network Attached Storage (NAS) - Rackmount 1U, 4-Bay, Diskless, 2103/1074 MB/s R/W
Purchase Request No.	: GAA-24-04-19066
Purchase / Work Order No.	: 24-06-132
Total Contract Price	: ₱95,000.00
<i>(inclusive of taxes, import duties and all other charges or fees)</i>	
Total Contract Price in Words	: Ninety-Five Thousand Pesos

Upon issuance of this Notice, your company, **PRONET SYSTEMS INTEGRATED NETWORK SOLUTION, INC.** is hereby directed to commence the delivery of items and/or performance of services stipulated in the said Purchase Order which shall become due and demandable in accordance with the delivery schedule stipulated therein.

Please acknowledge receipt and acceptance of this Notice by signing in the space provided below. There are two (2) copies of this document; you may keep one copy and return the other to the Bids and Awards Committee (BAC) Secretariat of the Advanced Science and Technology Institute. Should you have any questions or clarifications, you may reach us at bac-sec@asti.dost.gov.ph.

Respectfully,

FRANZ A. DE LEON, Ph.D.
 Director

Digitally signed
 by Benjamin R. Lara

DATE OF ISSUANCE:

24 JUN 2024

RECEIVED BY:

 Signature over Printed Name

 Date and Time