



ASTI-FM 03-11
REV 1/13 January 2020

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

ITB No:	20-05-3125	Date:	June-01-2020
PR No:	GAA-20-02-9671	Date:	February-14-2020
Source of Funds:	GAA		
Total ABC:	Php 3,008,000.00		
Time, Date & Venue of Pre-bid Conference:	June 10, 2020, 1:30 PM at DOST-ASTI		
Time and Date of Submission of Bids:	June 22, 2020, 12:00 PM		
Time, Date & Venue of Opening Bids:	June 23, 2020, 1:30 PM at DOST-ASTI		
Date of availability of Complete Set of Documents:	June 02, 2020		
Deadline of Potential Bidder's Clarifications:	June 12, 2020		
Deadline of ASTI's Supplemental Bid Bulletin:	June 15, 2020		
Delivery Schedule:			

The 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. Guidelines regarding the format, eligibility, technical and financial documents needed are described in the Instruction to Bidders of the Philippine Bidding Documents

Bidding will be conducted through open competitive bidding procedures using a non discretionary "pass/fail" criterion as specified in the 2016 R-IRR of RA 9184.

A complete set of Bidding Documents may be purchased by interested bidders upon payment of a fee for the Bidding Documents. It is also downloadable for free of charge at DOST-ASTI's website - www.asti.dost.gov.ph

For further inquiries, contact ASTI's BAC Secretariat via email at bac-sec@asti.dost.gov.ph. Interested bidders may also call the number - (632)-426-7423 and look for ASTI's BAC Secretariat.

Respectfully,

PEDRITO B. MANGAHAS
Chairperson, BAC-1

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	Laptop 1. Processor: Intel Core i7 1.8GHz, 8th Generation (equivalent or better) 2. Operating System: Windows 10 Pro (64-bit) 3. Display: 14 inches / FHD 1920x1080 4. Memory: 16gb DDR4 (minimum) 5. Storage: 512GB M.2 SSD (minimum) 6. IGPU: Intel UHD Graphics 620 (equivalent or better) 7. Video Graphics: 7.1. NVIDIA GeForce MX 230 (equivalent or better) 7.2. GDDR5 2GB (minimum) 8. Network Connection Wi-Fi 5(802.11ac) +Bluetooth 4.2 (Dual band) 2*2 (equivalent or better) 9. I/O Ports 9.1. USB3.1-Type C (1 port)	9	unit	67400.00	606,600.00

	<ul style="list-style-type: none"> 9.2. At least two (2) USB3.1 ports 9.3 HDMI port 9.4. 3.5 mm headphone/speaker jack 10. Bundled with laptop bag and mouse 11. Warranty: at least one (1) year 12. Price inclusive of VAT 13. to be used by CSD Staff 14. Delivery: 45 days upon issuance of Notice to Proceed 				
2	<p>Laptop</p> <ul style="list-style-type: none"> 1. Processor: Intel® Core™ i7-10510U processor 1.8 GHz (8M Cache, up to 4.9 GhZ) (equivalent or better) 2. Operating System : Windows 10 Pro (64-bit) 3. Display <ul style="list-style-type: none"> 3.1. 13 inches - 15.6 inches 3.2. at least Full HD resolution (1920x1080) 4. Memory: 16GB DDR4 (minimum) 5. Storage <ul style="list-style-type: none"> 5.1. 256GB NVMe SSD (minimum) 5.2. 1TB HDD (minimum) , 2.5-inch 5400 RPM 6. Video Graphics <ul style="list-style-type: none"> 6.1. NVIDIA GeForce MX230 (equivalent or better) 6.2. 2 GB of dedicated GDDR5 VRAM 7. Network Connection <ul style="list-style-type: none"> 7.1. 802.11a/b/g/n/ac wireless LAN and Supports Bluetooth® 5.0 (equivalent or better) 7.2. Gigabit Ethernet 8. I/O Ports <ul style="list-style-type: none"> 8.1. At least 2 USB ports 8.2. HDMI port 8.3. 3.5 mm headphone/speaker jack 8.4. Ethernet (RJ-45) port 9. Bundled with laptop bag and mouse 10. Warranty : at least two (2) years 11. Price inclusive of VAT 12. Delivery: 45 days upon issuance of Notice to Proceed 	30	unit	66200.00	1,986,000.00
3	<p>Desktop</p> <ul style="list-style-type: none"> 1. Composed of: <ul style="list-style-type: none"> 1.1. Processor: Intel Core i5-9400F (equivalent or better) 1.2. RAM: at least 8GB DDR4 2666Mhz 1.3. Disk: <ul style="list-style-type: none"> 1.3.1. minimum 250GB SSD (preferably M.2 form factor) 1.3.2. minimum 500GB HDD 1.4. Casing: Micro-mid tower ATX 1.5. Power Supply <ul style="list-style-type: none"> 1.5.1. at least 400 watts 1.5.2. for micro-ATX casing 1.6. Motherboard: <ul style="list-style-type: none"> 1.6.1. dual memory channel and supports DDR4 2666MHz memory module 1.6.2. LGA 1151 socket 1.6.3. LAN: 10/100/1000Mbps 1.6.4. HDMI and/or DVI ports 1.6.5. at least two (2) USB ports 1.6.6. Audio ports 1.6.7. at least one (1) PCI-Ex16 slot 	6	unit	30000.00	180,000.00

	<ul style="list-style-type: none"> 1.6.8. at least two (2) SATAIII ports 1.6.9. Form Factor: micro-ATX 1.6.10. Supports Windows 10 64-bit 1.7. CPU Cooler: for LGA 1151 socket <p>2. If custom unit, the components should be assembled and ensured that all components work together.</p> <p>3. Warranty: at least one (1) year</p> <p>4. Price inclusive of VAT</p> <p>5. to be used by FAD staff</p> <p>6. Delivery: 45 days upon issuance of Notice to Proceed</p>				
4	<p>Desktop</p> <ul style="list-style-type: none"> 1. Composed of: <ul style="list-style-type: none"> 1.1. Processor: Intel Core i7-9700F (equivalent or better) 1.2. RAM: at least 32GB DDR4 2666Mhz 1.3. Disk: <ul style="list-style-type: none"> 1.3.1. minimum 500GB SSD (preferably M.2 form factor) 1.3.2. minimum 1TB HDD 1.4. Casing: Small form factor (preferably micro-ATX) 1.5. Power Supply <ul style="list-style-type: none"> 1.5.1. at least 620 watts 1.5.2. for micro-ATX casing, 1.5.3. 80+ Bronze Full Modular 1.6. Motherboard: <ul style="list-style-type: none"> 1.6.1. dual memory channel and supports DDR4 2666MHz memory module 1.6.2. LGA 1151 socket 1.6.3. LAN: 10/100/1000Mbps 1.6.4. HDMI and/or DVI ports 1.6.5. at least two (2) USB ports 1.6.6. Audio ports 1.6.7. at least one (1) PCI-Ex16 slot 1.6.8. at least two (2) SATAIII ports 1.6.9. Form Factor: micro-ATX 1.6.10. Supports Windows 10 64-bit 1.7. CPU Cooler: for LGA 1151 socket 1.8. Graphics Card <ul style="list-style-type: none"> 1.8.1. NVIDIA® GeForce® GTX 1650 (equivalent or better) 1.8.2. Memory: 4GB GDDR5 2. If custom unit, the components should be assembled and ensured that all components work together. 3. Warranty: at least one (1) year 4. Price inclusive of VAT 5. to be used by the Corporate Communications Team for graphics designing and video editing 6. Delivery: 45 days upon issuance of Notice to Proceed 	3	unit	65000.00	195,000.00
5	<p>Network Attached Storage (NAS) - 2-Bay</p> <ul style="list-style-type: none"> 1. Network Attached Storage (NAS) <ul style="list-style-type: none"> 1.1. Quantity: 1 unit. 1.2. Hardware. <ul style="list-style-type: none"> 1.2.1. Hot swappable drive bays: 2 bays. 1.2.2. CPU Intel Celeron J3455 Quad-core 1.5GHz or similar <ul style="list-style-type: none"> 1.2.2.1. Burst up to 2.3GHz (minimum). 1.2.3. Hardware encryption engine: AES-NI or 	1	lot	40400.00	40,400.00

similar.

1.2.4. Hardware transcoding engine.

1.2.4.1. Supported codec: H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1.

1.2.4.2. Maximum resolution: 4K (4096 x 2160).

1.2.4.3. Maximum frame rate per second (FPS): 30.

1.2.5. Memory: 2 GB DDR3L (expandable up to 6 GB).

1.2.6. Compatible drive type: 2 x 3.5-inch or 2.5-inch SATA SSD / HDD.

1.2.7. External port.

1.2.7.1. USB 3.0 port: 3 (minimum).

1.2.7.2. eSATA port: 1 (minimum).

1.2.7.3. LAN 1GbE (RJ-45): 2 (minimum), with fallover and link aggregation support.

1.2.8. Wake on LAN/WAN.

1.2.9. Scheduled power on/off.

1.2.10. System fan: 92 x 92 x 25 mm (minimum).

1.2.11. AC input power voltage: 100V to 240V AC.

1.2.12. Power frequency: 50/60Hz, single phase.

1.2.13. With status indicator lights.

1.2.14. Kensington Security Slot.

1.3. NAS Operations and Features.

1.3.1. Networking protocol: SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN , L2TP).

1.3.2. File system.

1.3.2.1. Internal: Btrfs, ext4.

1.3.2.2. External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT4.

1.3.3. Supported RAID type: Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10.

1.3.4. Storage management.

1.3.4.1. Maximum single volume size: 108TB.

1.3.4.2. Maximum internal volume: 512.

1.3.4.3. Maximum iSCSI target: 32.

1.3.4.4. Maximum iSCSI LUN: 256.

1.3.4.5. iSCSI LUN clone/snapshot support.

1.3.5. SSD cache: SSD read-write cache support.

1.3.6. File sharing capability.

1.3.6.1. Maximum local user account: 2,048.

1.3.6.2. Maximum local group: 256.

1.3.6.3. Maximum shared folder: 512.

1.3.6.4. Maximum concurrent SMB/NFS/AFP/FTP connection: 500.

1.3.7. Privilege / Access Control: Windows Access Control List (ACL), application privilege.

1.3.8. Directory service.

1.3.8.1. Windows AD integration.

1.3.8.2. Domain users login via SMB/NFS/AFP/FTP/File Station.

1.3.8.3. LDAP integration.

1.3.9. Virtualization: VMware vSphere 6, Microsoft Hyper-V , Citrix, OpenStack

1.3.10. Security:

1.3.10.1. Firewall.

1.3.10.2. Encryption shared folder.

1.3.10.3. SMB encryption.

1.3.10.4. FTP over SSL/TLS.

1.3.10.5. SFTP.

1.3.10.6. Rsync over SSH.
1.3.10.7. Login auto block.
1.3.10.8. HTTPS (Customizable cipher suite).
1.3.11. Supported client.
1.3.11.1. Windows 7 and 10.
1.3.11.2. Mac OS X 10.11 onwards.
1.3.12. Supported browser: Chrome, Firefox, Internet Explorer 10 onwards, Safari 10 onwards; Safari (iOS 10 onwards), Chrome (Android 6.0 onwards).

1.4. Packages and Applications.

1.4.1. File and Folders: Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users or groups, creating sharing links, transfer logs.

1.4.2. FTP Server: Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs.

1.4.3. Global search into applications and files.

1.4.4. Backup: Support local backup, network backup, and backup data to public clouds.

1.4.5. Active Backup for Server: Centralize data backup for Windows and Linux servers without client installation.

1.4.6. Backup tool: Configuration backup, macOS Time Machine support, Cloud Backup.

1.4.7. Cloud Suite.

1.4.7.1. Sync data between multiple platforms by installing the client utilities on Windows, Mac, Linux, Android and iOS devices, while retaining up to 32 historical versions of files.

1.4.7.2. Maximum concurrent file transfer: 500.

1.4.8. Cloud Sync.

1.4.8.1. One or two-way synchronization with public cloud storage providers including Amazon Drive, Amazon S3-compatible storage, Baidu cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk.

1.4.9. IP Camera Integration.

1.4.9.1. Maximum IP camera: 40 (total of 1,200 FPS at 720p, H.264).

1.4.9.2. Inclusive of two camera licenses.

1.4.10. Virtual Machine Manager: Deploy and run various virtual machines on NAS, including Windows and Linux.

1.4.11. High Availability Manager: Capability of setting up two identical NAS into one high-availability cluster.

1.4.12. Snapshot Replication.

1.4.12.1. Maximum of replications: 64.

1.4.12.2. Maximum of shared folder snapshots: 1,024.

1.4.12.3. Maximum of system snapshots: 65,536.

1.4.13. VPN Server.

1.4.13.1. Maximum connection: 20.

1.4.13.2. Supported VPN protocol: PPTP, OpenVPN, L2TP/IPSec.

<p>1.4.14. Storage Analyzer: Volume and quota usage, total file size, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files.</p> <p>1.4.15. Download Capability.</p> <p>1.4.15.1. Supported download protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL.</p> <p>1.4.15.2. Maximum concurrent download task: 80.</p> <p>1.4.16. Web Hosting.</p> <p>1.4.16.1. Virtual host: Up to 30 websites.</p> <p>1.4.16.2. PHP / MariaDB, third-party applications support.</p> <p>1.5. Accessories.</p> <p>1.5.1. AC power adapter: 1.</p> <p>1.5.2. RJ-45 LAN cable: 2.</p> <p>1.6. Manufacturer's Warranty: 3 years (minimum).</p> <p>2. Network Attached Storage (NAS) Drives.</p> <p>2.1. Quantity: 2 units.</p> <p>2.2. Capacity: 2 TB.</p> <p>2.3. Form Factor: 3.5-inch internal hard drive.</p> <p>2.4. Interface: SATA 6.0 Gb/s.</p> <p>2.5. Speed: 5900 RPM (minimum).</p> <p>2.6. Cache: 64 MB (Up to 256 MB).</p> <p>2.7. Mean Time Between Failure (MTBF): 1 million hours (minimum).</p> <p>2.8. Manufacturer's Warranty: 3 years (minimum).</p> <p>3. Delivery: 45 calendar days upon issuance of Notice to Proceed (NTP).</p>				
TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):				Php 3,008,000.00
RESERVATION CLAUSE				
<p>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.</p>				