



18 August 2020

ASTI - BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BULLETIN NO. BAC-2020-08-026

SUPPLY AND DELIVERY OF LAPTOPS AND OTHER ITEMS

The ASTI Bids and Awards Committee (BAC) issues this Supplemental/Bid Bulletin to clarify, modify or amend items in the Bidding Documents and to reply to queries raised by the potential bidders through letters/emails for the information of all bidders for the procurement of:

Item: **Supply and Delivery of Laptops and Other Items
(Negotiated Procurement under Two Failed Biddings)**
 Approved Budget for the Contract: **Three Million Eight Thousand Pesos Only (₱3,008,000.00)**
 Request for Quotation No.: **20-05-3125 dated 10 August 2020**
 Purchase Request No.: **GAA-20-02-9671 dated 14 February 2020**
 Published Date (PhilGEPS): **11 August 2020 | 7167610**

A. AMENDMENT TO PROCUREMENT DETAILS AND FORMS

REFERENCE	AMENDMENT/CHANGE/CLARIFICATION								
Invitation for Negotiated Procurement, Schedule of Procurement Activities	<p>FROM:</p> <table border="1" data-bbox="597 1086 1479 1158"> <thead> <tr> <th>ACTIVITY</th> <th>SCHEDULE</th> </tr> </thead> <tbody> <tr> <td>Opening of Bid Offers</td> <td>21 August 2020, 01:30 PM</td> </tr> </tbody> </table> <p>TO:</p> <table border="1" data-bbox="597 1253 1479 1340"> <thead> <tr> <th>ACTIVITY</th> <th>SCHEDULE</th> </tr> </thead> <tbody> <tr> <td>Opening of Bid Offers</td> <td>24 August 2020, 01:30 PM</td> </tr> </tbody> </table> <p>As the President, by virtue of Proclamation No. 845, s. 2019, declared 21 August 2020 as a Special Non-working Holiday, the Opening of Bid Offers will be moved on 24 August 2020, 1:30 PM. This is pursuant to Section 38.2 of the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act No. 9184, <i>“the maximum periods and the recommended earliest possible time for action on specific procurement activities are provided for in Annex “C” of this IRR. In case the deadline for each activity falls on a non-working day (i.e. Saturday and Sunday), legal holiday, or special nonworking holiday, the deadline shall be the next working day.”</i></p>	ACTIVITY	SCHEDULE	Opening of Bid Offers	21 August 2020, 01:30 PM	ACTIVITY	SCHEDULE	Opening of Bid Offers	24 August 2020, 01:30 PM
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Invitation for
Negotiated Procurement,
Technical Specifications

FROM:

LOT NO.	TECHNICAL SPECIFICATIONS	STATEMENT OF COMPLIANCE
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)	
	11. Warranty: At least one (1) year	
2	Laptop	
	1. Processor: Intel® Core™ i7-10510U processor 1.8 GHz (8M Cache, up to 4.9 GhZ) (Equivalent or Better)	
	5. Storage	
	5.1.256GB NVMe SSD (Minimum)	
	5.2.1TB HDD (Minimum), 2.5-inch 5400 RPM	
	6. Video Graphics	
	6.1.NVIDIA GeForce MX230 (Equivalent or Better)	
	6.2.2 GB of dedicated GDDR5 VRAM	
	7. Network Connection	
	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	
	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	
	10. Warranty: At least two (2) years	
3	Desktop	
	1. Composed of:	

	1.1.Processor: Intel Core i5-9400F (Equivalent or Better)	
	1.2.RAM: at least 8GB DDR4 2666Mhz	
	1.3.Disk:	
	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	
	1.5.1. At least 400 watts	
	1.5.2. For micro-ATX casing	
	1.6.Motherboard:	
	1.6.1. Dual memory channel and supports DDR4 2666MHz memory module	
	1.6.2. LGA 1151 socket	
	1.6.9. Form Factor: Micro-ATX	
	1.6.10. Supports Windows 10 64-bit	
	1.7. CPU Cooler: For LGA 1151 socket	
	2. If custom unit, the components should be assembled and ensured that all components work together.	
	3. Warranty: At least one (1) year	
4	Desktop	
	1. Composed of:	
	1.1.Processor: Intel Core i7-9700F (Equivalent or Better)	
	1.2.RAM: At least 32GB DDR4 2666Mhz	
	1.3.Disk:	
	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	
	1.5.1. At least 620 watts	
	1.5.2. For micro-ATX casing	
	1.5.3. 80+ Bronze Full Modular	
	1.6.Motherboard:	
	1.6.1. Dual memory channel and supports DDR4 2666MHz memory module	
	1.6.2. LGA 1151 socket	
	1.6.9. Form Factor: Micro-ATX	
	1.6.9. Supports Windows 10 64-bit	

	1.7.CPU Cooler: For LGA 1151 socket	
	1.8.Graphics Card	
	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	
5	Network Attached Storage (NAS) -2 -2 Bay	
	1. Network Attached Storage (NAS)	
	1.2.2.1.Burst up to 2.3GHz (minimum)	
	1.2. Hardware transcoding engine.	
	1.2.4. Supported codec: H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1	
	1.2.5. Maximum resolution: 4K (4096 x 2160)	
	1.2.6. Maximum frame rate per second (FPS): 30	
	1.3. Memory: 2 GB DDR3L (expandable up to 6 GB)	
	1.4. Compatible drive type: 2 x 3.5-inch or 2.5-inch SATA SSD / HDD	
	1.5. External port	
	1.5.4. USB 3.0 port: 3 (Minimum)	
	1.2.10. System Fan: 92 x 92 x 25 mm (Minimum)	
	1.2.14. Kensington Security Slot	
	1.3.2.2. External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT4	
	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	
	1.3.6. 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	
	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	
	1.4. 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	
	1.4.10. 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	
	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	
	1.4.15.1. Supported download protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL	
	1.4.16.1. Virtual Host: Up to 30 websites	
	1.4.16.2. PHP / MariaDB, third-party applications support	
	1.5. Accessories	
	1.5.1. AC power adapter: 1	
	1.5.2. RJ-45 LAN cable: 2	
	1.6. Manufacturer's Warranty: Three (3) years (Minimum)	
	2.2. Capacity: 2 TB	
	2.8. Manufacturer's Warranty: Three (3) years (Minimum)	

TO:

LOT NO.	TECHNICAL SPECIFICATIONS	STATEMENT OF COMPLIANCE
1	Laptop	
	1. Processor: Intel Core i7 10th Generation (Equivalent or Better)	
	2. Operating System: Windows 10 Pro (64-bit)	
	3. Display:	
	3.1. 13 inches - 15.6 inches	
	3.2. at least Full HD resolution (1920x1080)	
	4. Memory	
	4.1. 16GB DDR4 (Minimum)	
	4.2. With extra memory slot for upgrading	
	4.3 Expandable to 32GB	
	5. Storage: 512GB M.2 NVMe storage drive (Minimum)	
	6. Video Graphics:	
	6.1. NVIDIA GeForce MX 250 (Equivalent or Better)	
	6.2. GDDR5 2GB (Minimum)	
	7. Network Connection	
	7.1. Wi-Fi 6	
	7.2. Bluetooth 5.0	
	7.3. 10/100/1000M GbE port	
	8. I/O Ports	
	8.1. USB 3.1- Type C (1 port)	
	8.2. At least two (2) USB 3.1 ports	
	8.3. HDMI port	
	8.4. 3.5 mm headphone/speaker jack	
	9. Battery: At least 45Wh capacity	
	10. Bundled with laptop bag and mouse	
	11. Warranty: at least 1 year for parts and 1 year for labor	
	12. Price inclusive of VAT	
	13. to be used by CSD Staff	
	14. Delivery: 60 days upon issuance of Notice to Proceed	
2	Laptop	
	1. Processor: Intel Core i7 10th Generation (equivalent or better)	
	2. Operating System: Windows 10 Pro (64-bit)	

	3. Display	
	3.1. 13 inches - 15.6 inches	
	3.2. at least Full HD resolution (1920x1080)	
	4. Memory	
	4.1. 16GB DDR4 (minimum)	
	4.2. with extra memory slot for upgrading	
	4.3 expandable to 32GB	
	5. Storage	
	5.1. 256GB M.2 NVMe storage drive (minimum)	
	5.2. 1TB HDD (minimum)	
	6. Video Graphics	
	6.1. NVIDIA GeForce MX 250 (equivalent or better)	
	6.2. 2 GB of dedicated GDDR5 VRAM	
	7. Network Connection	
	7.1 Wi-Fi 6	
	7.2 Bluetooth 5.0	
	7.3. 10/100/1000M GbE port	
	8. I/O Ports	
	8.1. USB 3.1 - Type C (1 port)	
	8.2. At least two (2) USB 3.1 ports	
	8.3. HDMI port	
	8.4. 3.5 mm headphone/speaker jack	
	9. Battery: at least 45Wh capacity	
	10. Bundled with laptop bag and mouse	
	11. Warranty: at least one (1) year for parts and one (1) year for labor	
	12. Price inclusive of VAT	
	13. Delivery: 60 days upon issuance of Notice to Proceed	
3	Desktop	
	1. Processor: Intel Core i5-9500 (Equivalent or Better)	
	2. RAM	
	2.1. At least 8GB DDR4 2666MHz	
	2.2. With extra memory slot for upgrading	
	2.3. Expandable to 32GB	
	3. Disk: Minimum 500GB HDD	

	4. Power Supply: At least 180 watts	
	5. Motherboard:	
	5.1. LAN: 10/100/1000M GbE	
	5.2. HDMI and/or DVI port	
	5.3. At least two (2) USB ports	
	5.4. Audio port/s	
	5.5. At least one (1) PCI-Ex16 slot	
	5.6. At least two (2) SATAIII ports	
	5.7. At least one (1) M.2 slot for storage	
	6. With optical wired USB mouse	
	7. Warranty: At least one (1) year for parts, one (1) year for labor, and one (1) year onsite support	
	8. Price inclusive of VAT	
	9. To be used by FAD staff	
	10. Delivery: Sixty (60) days upon issuance of Notice to Proceed	
4	Desktop	
	1. Processor: Intel Core i7-9700 (Equivalent or Better)	
	2. RAM:	
	2.1. At least 2x8GB DDR4 2666MHz	
	2.2. With extra memory slot for upgrading	
	2.3. Expandable to 32GB	
	3. Disk: Minimum 512GB M.2 NVMe Storage Drive	
	4. Power Supply: At least 500 watts	
	5. Motherboard:	
	5.1. LAN: 10/100/1000M GbE	
	5.2. HDMI and/or DVI port	
	5.3. At least two (2) USB ports	
	5.4. Audio port/s	
	5.5. At least one (1) PCI-Ex16 slot	
	5.6. At least two (4) SATAIII ports	
	5.7. At least one (1) M.2 slot for storage	
	6. With optical wired USB mouse	
	7. Graphics Card	
	7.1. NVIDIA GeForce RTX2060 (equivalent or better)	

	7.2. Memory: 6GB GDDR5	
	8. Warranty: At least one (1) year for parts, one (1) year for labor and one (1) year for onsite support	
	9. Price inclusive of VAT	
	10. To be used by the Corporate Communications Team for graphics designing and video editing	
	11. Delivery: Sixty (60) days upon issuance of Notice to Proceed	
5	Network Attached Storage (NAS) - 2-Bay	
	1. Network Attached Storage (NAS)	
	1.1. Quantity: 1 unit	
	1.2. Hardware	
	1.2.1. Hot swappable drive bays: 2 bays	
	1.2.2. CPU: 64-bit Intel Celeron J4125 Quad-core 2.0GHz or similar	
	1.2.2.1. Burst up to 2.7GHz (Minimum)	
	1.2.3. Hardware Encryption Engine: AES-NI or similar	
	1.2.4. Memory: 2 GB DDR4 (expandable up to 6 GB)	
	1.2.5. Compatible drive type	
	1.2.5.1. 3.5-inch SATA HDD	
	1.2.5.2. 2.5-inch SATA HDD / SSD	
	1.2.5.3. M.2 2280 NVMe SSD	
	1.2.6. External port	
	1.2.6.1. USB 3.0 Port: 2 (Minimum)	
	1.2.6.2. eSATA Port: 1 (Minimum)	
	1.2.6.3. LAN 1GbE (RJ-45): 2 (minimum), with fall over and link aggregation support	
	1.2.7. Wake on LAN/WAN	
	1.2.8. Scheduled power on/off	
	1.2.9. System Fan: 92 x 92 (Minimum)	
	1.2.10. AC Input Power Voltage: 100V to 240V AC	
	1.2.11. Power Frequency: 50/60Hz, single phase	
	1.2.12. With status indicator lights	
	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 (supported)	
	1.3.2.1. Internal: Btrfs, EXT4	

	1.3.2.2. External: Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT	
	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 Internal Volume Number: 64	
	1.3.4.2. Maximum iSCSI Target Number: 128	
	1.3.4.3. Maximum iSCSI LUN: 256	
	1.3.4.4. iSCSI LUN clone/snapshot support	
	1.3.5. SSD Cache: SSD read-write cache support	
	1.3.6. SSD TRIM	
	1.3.7. File services	
	1.3.7.1. File Protocol: CIFS, AFP, NFS, FTP, WebDAV	
	1.3.7.2. Maximum Concurrent CIFS/AFP/FTP Connections: 500	
	1.3.7.3. Windows Access Control List (ACL) Integration	
	1.3.7.4. NFS Kerberos Authentication	
	1.3.8. Account and shared folder	
	1.3.8.1. Maximum Local User Account: 2,048	
	1.3.8.2. Maximum Local Group: 256	
	1.3.8.3. Maximum Shared Folder: 512	
	1.3.8.4. Maximum Shared Folder Sync Tasks: 8	
	1.3.9. Networking Protocols: SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV	
	1.3.10. Virtualization: VMware vSphere 6 with VAAI, Windows Server 2016, Citrix, OpenStack.	
	1.3.11. Supported Browser: Chrome, Firefox, Edge, Internet Explorer 10 onwards, Safari 10 onwards; Safari (iOS 10 onwards), Chrome (Android 6.0 onwards)	
	1.3.12. IP Camera Integration	
	1.3.12.1. Maximum IP Camera: 40 (total of 1,200 FPS at 720p, H.264)	
	1.3.12.2. Inclusive of two camera licenses	
	1.3.13. Virtual Machine Manager	
	1.3.14. VPN Server	
	1.3.14.1. Maximum Connection: 30	
	1.3.15. Media Server	
	1.3.15.1. DLNA Compliance	
	1.3.16. Download Capability	

	1.3.16.1. Maximum concurrent download task: 80	
	1.4. Accessories	
	1.4.1. AC Power Adapter: 1	
	1.4.2. AC Power Cord: 1	
	1.4.3. RJ-45 LAN Cable: 2	
	1.5. Warranty: One (1) year (Minimum)	
	2. Network Attached Storage (NAS) Drives	
	2.1. Quantity: 2 units	
	2.2. Capacity: 2 TB per drive	
	2.3. Form Factor: 3.5-inch internal hard drive	
	2.4. Interface: SATA 6.0 Gb/s	
	2.5. Speed: 5900 RPM (Minimum)	
	2.6. Cache: 64 MB (Up to 256 MB)	
	2.7. Mean Time Between Failure (MTBF): 1 million hours (minimum)	
	2.8. Warranty: One (1) year (minimum)	
	3. Delivery: Sixty (60) calendar days upon issuance of Notice to Proceed (NTP)	

Invitation for
Negotiated Procurement,
Schedule of Requirements

FROM:

SCHEDULE OF REQUIREMENTS

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the **DOST-Advanced Science and Technology Institute**.

Lot No.	Description	Qty.	Unit	Delivered (Calendar Days)
1	Laptop	9	Unit	Forty-five (45) calendar days upon issuance of Notice to Proceed
2	Laptop	30	Unit	
3	Desktop	6	Unit	
4	Desktop	3	Unit	
5	Network Attached Storage (NAS) - 2-Bay	1	Lot	

I hereby certify to comply and deliver all the above requirements.

Name of Company : _____
Signature of Authorized Representative : _____
Name of Authorized Representative : _____
Designation : _____
Date : _____

TO:

SCHEDULE OF REQUIREMENTS

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the **DOST-Advanced Science and Technology Institute**.

Lot No.	Description	Qty.	Unit	Delivered (Calendar Days)
1	Laptop	9	Unit	Sixty (60) calendar days upon issuance of Notice to Proceed
2	Laptop	30	Unit	
3	Desktop	6	Unit	
4	Desktop	3	Unit	
5	Network Attached Storage (NAS) - 2-Bay	1	Lot	

I hereby certify to comply and deliver all the above requirements.

Name of Company : _____
Signature of Authorized Representative : _____
Name of Authorized Representative : _____
Designation : _____
Date : _____

B. RESPONSE TO QUERIES

QUERY/ISSUE	BAC/END-USER RESPONSE/CLARIFICATION
For Items No.1-4, is it possible to consider and revised the specifications from non-branded – to branded?	Please be informed that we are denying the said request.

For Items No. 1-4, is it possible to consider and revised the specifications for the warranty from 2 years to 1 year minimum?	Please be informed that we are accepting the said request.
For Items No. 1-4, is it possible to change the delivery schedule from forty-five (45) days upon issuance of Notice to Proceed to sixty (60) days upon issuance of Notice to Proceed?	Please be informed that we are granting the request for the delivery terms.
For Item No. 5, is it possible to consider and revised the specifications for the warranty from 3 years minimum to at least 1 year minimum?	Please be informed that we are granting the said request and changed the warranty to at least 1 year minimum.
Is it possible to join for a specific lot only?	Please be informed that the bidders can join for all, or specific lots, as the procurement project lots are to be awarded separately.

Attached to this Supplemental/Bid Bulletin are the amended forms for Technical Specifications and Schedule of Requirements. Bidder/s may **(1)** indicate compliance in the original and amended forms or **(2)** revise the forms to reflect changes in the Supplemental/Bid Bulletin and indicate compliance. These forms must be submitted as part of the Technical Component of the bid.

Please be guided accordingly.

Prepared by:



VLADIMIR R. SUAN
Member, BAC Secretariat

Noted by:



Digitally signed by
Katherine B. Ramos

KATHERINE B. RAMOS
Head, BAC Secretariat

Approved by:

PEDRITO B. MANGAHAS
Chairperson, BAC-1



INSTRUCTION TO THE SUPPLIER: DO NOT LEAVE ANY BLANK. FAILURE TO CONFORM WILL RESULT IN A RATING OF “**FAILED**”. THE DULY ACCOMPLISHED AMENDED FORM MUST BE ATTACHED TO THE ORIGINAL DOCUMENTARY REQUIREMENT, AS PART OF TECHNICAL DOCUMENTS, TO BE SUBMITTED TO THE BIDS AND AWARDS COMMITTEE. BIDDERS ARE ALSO ALLOWED TO AMEND THE ORIGINAL FORMS TO REFLECT THE MODIFICATIONS IN THE SUPPLEMENTAL BULLETIN.

TECHNICAL SPECIFICATIONS (AMENDED)

*Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. 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. A statement either in the Bidders 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 **Error! Reference source not found.** and/or GCC Clause **Error! Reference source not found.***

LOT NO.	TECHNICAL SPECIFICATIONS	STATEMENT OF COMPLIANCE
1	Laptop	
	1. Processor: Intel Core i7 10th Generation (Equivalent or Better)	
	2. Operating System: Windows 10 Pro (64-bit)	
	3. Display:	
	3.1. 13 inches - 15.6 inches	
	3.2. at least Full HD resolution (1920x1080)	
	4. Memory	
	4.1. 16GB DDR4 (Minimum)	
	4.2. With extra memory slot for upgrading	
	4.3 Expandable to 32GB	
	5. Storage: 512GB M.2 NVMe storage drive (Minimum)	
	6. Video Graphics:	
	6.1. NVIDIA GeForce MX 250 (Equivalent or Better)	
	6.2. GDDR5 2GB (Minimum)	
	7. Network Connection	
	7.1. Wi-Fi 6	
	7.2. Bluetooth 5.0	

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	7.3. 10/100/1000M GbE port	
	8. I/O Ports	
	8.1. USB 3.1- Type C (1 port)	
	8.2. At least two (2) USB 3.1 ports	
	8.3. HDMI port	
	8.4. 3.5 mm headphone/speaker jack	
	9. Battery: At least 45Wh capacity	
	10. Bundled with laptop bag and mouse	
	11. Warranty: at least 1 year for parts and 1 year for labor	
	12. Price inclusive of VAT	
	13. to be used by CSD Staff	
	14. Delivery: 60 days upon issuance of Notice to Proceed	
2	Laptop	
	1. Processor: Intel Core i7 10th Generation (equivalent or better)	
	2. Operating System: Windows 10 Pro (64-bit)	
	3. Display	
	3.1. 13 inches - 15.6 inches	
	3.2. at least Full HD resolution (1920x1080)	
	4. Memory	
	4.1. 16GB DDR4 (minimum)	
	4.2. with extra memory slot for upgrading	
	4.3 expandable to 32GB	
	5. Storage	
	5.1. 256GB M.2 NVMe storage drive (minimum)	
	5.2. 1TB HDD (minimum)	
	6. Video Graphics	

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	6.1. NVIDIA GeForce MX 250 (equivalent or better)	
	6.2. 2 GB of dedicated GDDR5 VRAM	
	7. Network Connection	
	7.1 Wi-Fi 6	
	7.2 Bluetooth 5.0	
	7.3. 10/100/1000M GbE port	
	8. I/O Ports	
	8.1. USB 3.1 - Type C (1 port)	
	8.2. At least two (2) USB 3.1 ports	
	8.3. HDMI port	
	8.4. 3.5 mm headphone/speaker jack	
	9. Battery: at least 45Wh capacity	
	10. Bundled with laptop bag and mouse	
	11. Warranty: at least one (1) year for parts and one (1) year for labor	
	12. Price inclusive of VAT	
	13. Delivery: 60 days upon issuance of Notice to Proceed	
3	Desktop	
	1. Processor: Intel Core i5-9500 (Equivalent or Better)	
	2. RAM	
	2.1. At least 8GB DDR4 2666MHz	
	2.2. With extra memory slot for upgrading	
	2.3. Expandable to 32GB	
	3. Disk: Minimum 500GB HDD	
	4. Power Supply: At least 180 watts	
	5. Motherboard:	
	5.1. LAN: 10/100/1000M GbE	

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	5.2. HDMI and/or DVI port	
	5.3. At least two (2) USB ports	
	5.4. Audio port/s	
	5.5. At least one (1) PCI-Ex16 slot	
	5.6. At least two (2) SATAIII ports	
	5.7. At least one (1) M.2 slot for storage	
	6. With optical wired USB mouse	
	7. Warranty: At least one (1) year for parts, one (1) year for labor, and one (1) year onsite support	
	8. Price inclusive of VAT	
	9. To be used by FAD staff	
	10. Delivery: Sixty (60) days upon issuance of Notice to Proceed	
4	Desktop	
	1. Processor: Intel Core i7-9700 (Equivalent or Better)	
	2. RAM:	
	2.1. At least 2x8GB DDR4 2666MHz	
	2.2. With extra memory slot for upgrading	
	2.3. Expandable to 32GB	
	3. Disk: Minimum 512GB M.2 NVMe Storage Drive	
	4. Power Supply: At least 500 watts	
	5. Motherboard:	
	5.1. LAN: 10/100/1000M GbE	
	5.2. HDMI and/or DVI port	
	5.3. At least two (2) USB ports	
	5.4. Audio port/s	
	5.5. At least one (1) PCI-Ex16 slot	

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	5.6. At least two (4) SATAIII ports	
	5.7. At least one (1) M.2 slot for storage	
	6. With optical wired USB mouse	
	7. Graphics Card	
	7.1. NVIDIA GeForce RTX2060 (equivalent or better)	
	7.2. Memory: 6GB GDDR5	
	8. Warranty: At least one (1) year for parts, one (1) year for labor and one (1) year for onsite support	
	9. Price inclusive of VAT	
	10. To be used by the Corporate Communications Team for graphics designing and video editing	
	11. Delivery: Sixty (60) days upon issuance of Notice to Proceed	
5	Network Attached Storage (NAS) - 2-Bay	
	1. Network Attached Storage (NAS)	
	1.1. Quantity: 1 unit	
	1.2. Hardware	
	1.2.1. Hot swappable drive bays: 2 bays	
	1.2.2. CPU: 64-bit Intel Celeron J4125 Quad-core 2.0GHz or similar	
	1.2.2.1. Burst up to 2.7GHz (Minimum)	
	1.2.3. Hardware Encryption Engine: AES-NI or similar	
	1.2.4. Memory: 2 GB DDR4 (expandable up to 6 GB)	
	1.2.5. Compatible drive type	
	1.2.5.1. 3.5-inch SATA HDD	
	1.2.5.2. 2.5-inch SATA HDD / SSD	
	1.2.5.3. M.2 2280 NVMe SSD	
	1.2.6. External port	
	1.2.6.1. USB 3.0 Port: 2 (Minimum)	
	1.2.6.2. eSATA Port: 1 (Minimum)	

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	1.2.6.3. LAN 1GbE (RJ-45): 2 (minimum), with fall over and link aggregation support	
	1.2.7. Wake on LAN/WAN	
	1.2.8. Scheduled power on/off	
	1.2.9. System Fan: 92 x 92 (Minimum)	
	1.2.10. AC Input Power Voltage: 100V to 240V AC	
	1.2.11. Power Frequency: 50/60Hz, single phase	
	1.2.12. With status indicator lights	
	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 (supported)	
	1.3.2.1. Internal: Btrfs, EXT4	
	1.3.2.2. External: Btrfs, EXT4, EXT3, FAT, NTFS, HFS+, exFAT	
	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 Internal Volume Number: 64	
	1.3.4.2. Maximum iSCSI Target Number: 128	
	1.3.4.3. Maximum iSCSI LUN: 256	
	1.3.4.4. iSCSI LUN clone/snapshot support	
	1.3.5. SSD Cache: SSD read-write cache support	
	1.3.6. SSD TRIM	
	1.3.7. File services	
	1.3.7.1. File Protocol: CIFS, AFP, NFS, FTP, WebDAV	
	1.3.7.2. Maximum Concurrent CIFS/AFP/FTP Connections: 500	
	1.3.7.3. Windows Access Control List (ACL) Integration	
	1.3.7.4. NFS Kerberos Authentication	

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	1.3.8. Account and shared folder	
	1.3.8.1. Maximum Local User Account: 2,048	
	1.3.8.2. Maximum Local Group: 256	
	1.3.8.3. Maximum Shared Folder: 512	
	1.3.8.4. Maximum Shared Folder Sync Tasks: 8	
	1.3.9. Networking Protocols: SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV	
	1.3.10. Virtualization: VMware vSphere 6 with VAAI, Windows Server 2016, Citrix, OpenStack.	
	1.3.11. Supported Browser: Chrome, Firefox, Edge, Internet Explorer 10 onwards, Safari 10 onwards; Safari (iOS 10 onwards), Chrome (Android 6.0 onwards)	
	1.3.12. IP Camera Integration	
	1.3.12.1. Maximum IP Camera: 40 (total of 1,200 FPS at 720p, H.264)	
	1.3.12.2. Inclusive of two camera licenses	
	1.3.13. Virtual Machine Manager	
	1.3.14. VPN Server	
	1.3.14.1. Maximum Connection: 30	
	1.3.15. Media Server	
	1.3.15.1. DLNA Compliance	
	1.3.16. Download Capability	
	1.3.16.1. Maximum concurrent download task: 80	
	1.4. Accessories	
	1.4.1. AC Power Adapter: 1	
	1.4.2. AC Power Cord: 1	
	1.4.3. RJ-45 LAN Cable: 2	
	1.5. Warranty: One (1) year (Minimum)	
	2. Network Attached Storage (NAS) Drives	

AMENDED ON 18 AUGUST 2020
PER SUPPLEMENTAL BULLETIN NO. BAC-2020-08-026

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	2.1. Quantity: 2 units	
	2.2. Capacity: 2 TB per drive	
	2.3. Form Factor: 3.5-inch internal hard drive	
	2.4. Interface: SATA 6.0 Gb/s	
	2.5. Speed: 5900 RPM (Minimum)	
	2.6. Cache: 64 MB (Up to 256 MB)	
	2.7. Mean Time Between Failure (MTBF): 1 million hours (Minimum)	
	2.8. Warranty: One (1) year (Minimum)	
	3. Delivery: Sixty (60) calendar days upon issuance of Notice to Proceed (NTP)	

***NOTE:** Should there be inconsistencies between the requirements/specifications contained in the original and latest amended document, the latter shall prevail.

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SCHEDULE OF REQUIREMENTS (AMENDED)

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the **DOST-Advanced Science and Technology Institute**.

LOT NO.	DESCRIPTION	QTY.	UNIT	DELIVERED (CALENDAR DAYS)
1	Laptop	9	Unit	Sixty (60) calendar days upon issuance of Notice to Proceed
2	Laptop	30	Unit	
3	Desktop	6	Unit	
4	Desktop	3	Unit	
5	Network Attached Storage (NAS) - 2-Bay	1	Lot	

I hereby certify to comply and deliver all the above requirements.

Name of Company : _____
Signature of Authorized Representative : _____
Name of Authorized Representative : _____
Designation : _____
Date : _____

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