

Republic of the Philippines Department of Agriculture **BUREAU OF SOILS AND WATER MANAGEMENT** SRDC Bldg., Elliptical Road corner Visayas Avenue, Diliman, Quezon City

BSWM- BIDS AND AWARDS COMMITTEE SUPPLEMENTAL BID BULLETIN ADDENDUM NO. 2021-09-043-01

CONTRACT: SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021- IB NO. BSWM 2021-09-043

This **Addendum** is being issued in accordance with **Section 22.5.2 of the IRR of RA 9184**, to clarify and modify some provision of the Bidding Document. <u>THIS SHALL FORM AN INTEGRAL PART OF THE BID DOCUMENT.</u> Likewise, the succeeding agreements and reminders were discussed during the **Pre-Bid Conference** held last **October 12, 2021, 9:30AM at the BSWM Function Hall and via Videoconferencing-Zoom.**

I. DISCUSSION OF THE BIDDING DOCUMENT:

0	Total ABC of the contract:	Php 24, 392,088.00
		Lot 1- Php 1,450,000.00
		Lot 2- Php 1,000,000.00
		Lot 3- Php 15,230,000.00
		Lot 4- Php 2,340,550.00
		Lot 5- Php 4,371,538.00
		-

- Bidder must have completed a single contract that is similar to this project, equivalent to **at least fifty percent (50%) of the ABC.**
- **Awarding:** Project having several items that shall be awarded as one contract.

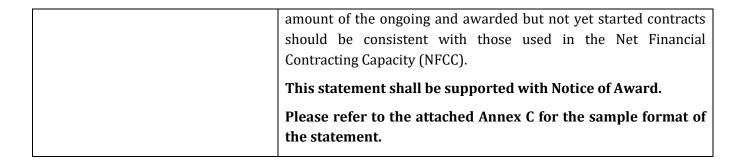
Similar contracts shall be contract for supply and delivery of various ICT hardware, software, network equipment, supplies and peripherals and/or its equivalent, completed within two (2) consecutive years from the date of submission and receipt of bids.

II. CLARIFICATION AND AGREEMENTS DURING THE PRE-BID CONFERENCE:

QUERIES/CLARIFICATION/s	RESPONSE/AGREEMENT/s
Can the Schedule of Requirement /Completion of Work of 30 calendar days extended to 60 calendar days?	Items charged against General Appropriations Act for CY 2020, which shall be in accordance with Republic Act No. 11520: An Act Extending the Availability of the 2020 Appropriations to December 31, 2021:
Calchuar uays:	"Obligation, Completion/Delivery, Inspection and Payment shall be made not later than December 31, 2021."
For statement of all ongoing contract/s, do the bidder need to	Yes, contract/s that has not yet paid were not considered as completed.
include the contract that has been completely delivered, but not yet paid?	Amount or value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid. The total

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III. AMMENDMENTS IN THE BIDDING DOCUMENT:

SECTION I. INVITATION TO BID:

ORIGINAL	AMENDED
1. The Bureau of Soils and Water Management, through the General Appropriations Act for CY 2021 and CY 2020 through SARO Number BMB-E-21- 0002351 intends to apply the sum of:	2. The Bureau of Soils and Water Management, through the General Appropriations Act for CY 2021 and CY 2020 through SARO Number BMB-E-21- 0002351 intends to apply the sum of:
LOT 1- SUPPLY AND DELIVERY OF MICROSOFT WINDOWS SOFTWARE (FUNDED UNDER GAA CY 2020	LOT 1- SUPPLY AND DELIVERY OF MICROSOFT WINDOWS SOFTWARE (FUNDED UNDER GAA CY 2020
ABC: One Million Four Hundred Fifty Thousand pesos (Php 1,450,000.00)	ABC: One Million Four Hundred Fifty Thousand pesos (Php 1,450,000.00)
LOT 2- SUPPLY AND DELIVERY OF SOFTWARE AND BARCODE SOLUTIONS (FUNDED UNDER GAA CY 2020	LOT 2- SUPPLY AND DELIVERY OF SOFTWARE AND BARCODE SOLUTIONS (FUNDED UNDER GAA CY 2020
ABC: One Million pesos (Php 1,000,000.00)	ABC: One Million pesos (Php 1,000,000.00)
LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE, NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY 2020 ABC: Fifteen Million Two Hundred Thirty Thousand pesos (Php 15,230,000.00)	LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE, NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY 2020 ABC: Ten Million Three Hundred Ninety Thousand pesos (Php 10,390,000.00)
LOT 4- SUPPLY AND DELIVERY OF ICT EQUIPTMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2020 ABC: Two Million Three Hundred Forty Thousand Five Hundred Fifty pesos (Php 2,340,550.00)	LOT 4- SUPPLY AND DELIVERY OF ICT EQUIPTMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2020 ABC: Seven Million One Hundred Eighty Thousand Five Hundred Fifty pesos (Php 7,180,550.00)
LOT 5- SUPPLY AND DELIVERY OF ICT EQUIPTMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2021)	LOT 5- SUPPLY AND DELIVERY OF ICT EQUIPTMENT, SUPPLIES AND PERIPHERALS (FUNDED UNDER GAA CY 2021) ABC: Four Million Three Hundred Seventy-One Thousand Five Hundred Thirty-Eight pesos (Php 4,371,538.00)

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ABC: Four Million Three Hundred Seventy-One	Total ABC of the contract: Twenty-Four Million Three
Thousand Five Hundred Thirty-Eight pesos (Php	Hundred Ninety-Two Thousand Eighty-Eight pesos
4,371,538.00)	(Php 24, 392,088.00).
Total ABC of the contract: Twenty-Four Million Three	being the Approved Budget for the Contract (ABC) to
Hundred Ninety-Two Thousand Eighty-Eight pesos	payments under the contract for SUPPLY AND
(Php 24, 392,088.00).	DELIVERY OF ICT HARDWARE, SOFTWARE,
being the Approved Budget for the Contract (ABC) to payments under the contract for SUPPLY AND DELIVERY OF ICT HARDWARE, SOFTWARE, NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021. Bids received in excess of the ABC shall be automatically rejected at bid opening.	NETWORK EQUIPMENT, AND VARIOUS SUPPLIES AND PERIPHERALS FOR BATCH 5 FOR CY 2021. Bids received in excess of the ABC shall be automatically rejected at bid opening.

SECTION III. BID DATA SHEET:

ORIGINAL AMENDED		
ITB Clause 5.3	ITB Clause 5.3	
For this purpose, contracts similar to the Project shall be:	For this purpose, contracts similar to the Project shall be:	
 a. Similar contracts shall be contract for supply, delivery and installation of Air Conditioning Units and/or its equivalent. 	 a. Similar contract for supply and delivery of various ICT hardware, software, network equipment, supplies and peripherals and/or its equivalent. 	
 b. Completed within two (2) years prior to the deadline for the submission and receipt of bids. The Bidder must have completed a single contract 	 b. Completed within two (2) years prior to the deadline for the submission and receipt of bids. 	
that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.	The Bidder must have completed a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC.	
	Required SLCC per lot:	
	Lot 1- Php 725,000.00	
	Lot 2- Php 500,000.00	
	Lot 3- Php 5,195,000.00	
	Lot 4- Php 3,590,275.00	
	Lot 5- Php 2,185,769.00	
	Attachment/s:	
	SLCC shall be supported/of the end-user's Official Receipt and/or Certificate of Completion/ Acceptance.	
Clause 19.3	Clause 19.3	
Awarding: One Project having several lots which that shall be awarded as one contract per lot.	Awarding:	



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For Lots 1-3 - One Project having several lots which that shall be awarded as one contract per lot.
For Lots 4 and 5- Per item basis. One Project having several items per lot, which shall be awarded as separate contracts per item.

SECTION VI. SCHEDULE OF REQUIREMENTS:

ORIGINAL	AMENDED
Delivery of goods is required within thirty (30) calendar days upon receipt of Notice to Proceed (NTP).	For Lots 1-4- Delivery of goods is required <u>on or</u> <u>before December 10, 2021.</u>
Supplier shall coordinate with the End-user for final schedule of delivery within 7 calendar days from receipt of Notice to Proceed.	For Lot 5- Delivery of goods is required within sixty (60) calendar days upon receipt of Notice to <u>Proceed (NTP)</u> .
	Supplier shall coordinate with the End-user for final schedule of delivery within 7 calendar days from receipt of Notice to Proceed.

SECTION VII. TECHNICAL SPECIFICATIONS:

ORIGINAL	AMENDED	
LOT 3- SUPPLY AND DELIVERY OF VARIOUS ICT SERVER SYSTEM, STORAGE, NETWORK SECURITY, SWITCHES AND EQUIPMENT (FUNDED UNDER GAA CY 2020		
Server System and StorageServer System and Storage		
Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. A.1 - A.6)	Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. A.1 - A.6)	
Database Server	Database Server	
Application Server	Application Server	
Domain Controller Server	Domain Controller Server	
Network Attached Storage	Network Attached Storage	
BackUP Tape Drive	BackUP Tape Drive	
UPS fr Server	UPS fr Server	
Network Security and Switches	Network Security and Switches	
Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. B.1 - B.8)	Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. B.1 - B.8)	
Network Distribution Switch	Network Distribution Switch	
Network Core Switch	Network Core Switch	
Network Appliance Firewall	Network Appliance Firewall	

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Network DMZ Appliance	Network DMZ Appliance
Network Cabinet (6U Switch Racks)	Network Cabinet (6U Switch Racks)
Network & Server Steel Cabinet	Network & Server Steel Cabinet
Network Attached Storage	Network Attached Storage
Wireless Router	Wireless Router
Workstation and Laptop Computers with accessories	NOTE: Must have standard warranty, customer replaceable unit, on-site support and services
Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. D.1 - D.10)	ATTACHED IS THE ANNEXES FOR SPECIFIC SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND
Workstation Computer	ANNEX D) FOR COMPLIANCE.
Workstation Computer with Printers	Compliance with Section VI. Schedule of Requirement.
Windows Laptop	
Macbook Pro Laptop	
Industrial Multi-Function Printer	
Portable HD Projector	
DSLR Camera with Kit Lens	
Video Conferencing Device	
Android Tablet	
NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
ATTACHED IS THE ANNEXES FOR SPECIFIC SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND ANNEX D) FOR COMPLIANCE.	
Compliance with Section VI. Schedule of Requirement.	
LOT 4- SUPPLY AND DELIVERY OF ICT EQUIP UNDER GAA CY 2020	TMENT, SUPPLIES AND PERIPHERALS (FUNDE
	Additional itoms
	Additional items:
	Workstation and Laptop Computers with accessories Please see LIMS-Terms of Reference - Annex A for
	Workstation and Laptop Computers with accessories Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. D.1 - D.10)
	Workstation and Laptop Computers with accessoriesPlease see LIMS-Terms of Reference - Annex A fordetailed technical specification (Ref. D.1 - D.10)33Workstation Computer
	Workstation and Laptop Computers with accessoriesPlease see LIMS-Terms of Reference - Annex A fordetailed technical specification (Ref. D.1 - D.10)33Workstation Computer34Workstation Computer with Printers
	Workstation and Laptop Computers with accessoriesPlease see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. D.1 - D.10)33Workstation Computer34Workstation Computer with Printers35Windows Laptop

- 39 DSLR Camera with Kit Lens
- Video Conferencing Device
- 40

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	41 Android Tablet	
	NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
	ATTACHED IS THE ANNEXES FOR SPECIFIC SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND ANNEX D) FOR COMPLIANCE.	
Please refer to the attached Annex A for the Revised Section VII. Technical Specification.		

IV. REMINDERS DURING THE PRE-BID CONFERENCE:

- The Bureau is now adopting the GPPB Resolution No. 16-2020 dated September 16, 2020 (Simplified PBDs shall be used for Competitive Bidding of Procurement Projects that will be posted upon its effectivity on 06 October 2020).
 - The documents required for eligibility, technical proposal and financial proposal are found at Section VIII - Checklist of Technical and Financial Documents for Goods and Section IX. Checklist of Technical and Financial Documents for Infrastructure of the bidding document.
- Please refer to the bidding document for the **sample form** of **Single Largest Completed Contract (SLCC)** and form for **Statement of all ongoing Government & Private Contracts** including Contracts Awarded but not yet started for your reference.

Note: if no ongoing projects/ contracts, please state "none" or "no ongoing projects/contracts" in the form for the Statement of all on going Government and Private Contracts.

 Bidding will be conducted through open competitive bidding procedures using a non-discretionary "pass/fail" criterion as specified in the Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the "Government Procurement Reform Act"

"Any lacking documents can cause the automatic disqualification of bids."

• Below are the **acceptable forms of bid security** that bidders may opt to use, **which shall include the Bid Securing Declaration.** The amount of which shall not be less than the required percentage of the ABC in accordance with the following schedule:

Form of Bid Security	Amount of Bid Security (Not less than the required Percentage of the ABC)
Cash or cashier's/manager's check issued by a Universal or Commercial Bank.	
Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.	Two percent (2%)
Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.	Five percent (5%)

Please NOTE:



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Surety bond issued by GSIS as well as a cash deposit certificate is no longer accepted.

Bids and Bid Securities should be valid and firm for a period that shall not exceed one hundred twenty (120) calendar days after the date of the opening of bids.

• Net Financial Contracting Capacity (NFCC):

The computation of a prospective bidder's NFCC must be **at least equal to the ABC to be bid** or, for procurement by lot, **at least equal to the sum of all the ABCs of lots to which it participated**.

NFCC= Current assets minus current liabilities multiplied by 15 (constant factor) minus the value of all outstanding or uncompleted portions of on-going contracts, including awarded contract/s yet to be started, coinciding with the contract to be bid.

• Sealing and marking of bid proposal- The bidder shall submit:

- 1. One (1) ORIGINAL COPY.
- 2. One (1) DUPLICATE COPY.
- 3. One (1) PDF COPY in a USB or CD to be placed inside the Duplicate Copy of Technical Proposal and Duplicate Copy of Financial Proposal.

Please refer to Annex B for illustration.

NOTE:

All photocopied documents must be stamped and signed "Certified True Copy". And all pages/documents must be duly signed by the authorized representative (both original and duplicate copies).

For easy reference, all bidders are requested to provide dog-ear codes/ tabs in the presentation of their documents.

• **Reminders**:

- ✓ Bidders responsibility to read, study, and review the Bidding Document and Bid Bulletin/s of the procurement project.
- ✓ Further clarification/s on the Bidding Document shall be in writing and must be submitted 10 days before the Opening of Bids.
- ✓ All bidders who wish to join the bidding shall download the attached document from PhilGEPS website to be included in the Document Request List (DRL).
- ✓ Bidders may download the updated Bidding Forms at GPPB Website (<u>https://www.gppb.gov.ph/downloadables.php</u>).
- ✓ Schedule of Submission and Opening of Bids is subject to change due to Community Quarantine enforced by the government in line with the COVID-19 pandemic. For updates, please refer to the BSWM PhilGEPS posting (<u>https://www.philgeps.gov.ph/</u>) and BSWM Procurement Service FB page <u>https://www.facebook.com/bswmpms</u>.
- ✓ Authorization letter and a copy of company ID shall be presented by the Representative of the Bidder who will submit the bid proposal and who will attend the Opening of Bids, on-site or online.



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- ✓ In case of withdrawal of submitted bid, a letter stating their intention to withdraw from the project should be submitted by the bidder not later than the scheduled deadline of submission and opening of bids.
- ✓ Bidders declared to have the Lowest/ Single Calculated Bid will be subject for Postqualification.
- Bidder shall submit the additional requirements listed on the NOTICE as LCB/ SCB within five
 (5) calendar days from receipt of Notice. *Non-compliance can be grounds for post- disgualification.*
- ✓ Winning Bidders declared to have the Lowest/Single Calculated and Responsive Bid shall submit its Performance Bond and Signed Contract Agreement within ten (10) calendar days from receipt of Notice.

• Warranty in accordance with Section 62 of 2016 IRR of RA 9184:

For the **procurement of Goods**, in order to assure that manufacturing defects shall be corrected by the supplier, a **warranty security** shall be required from the contract awardee, after acceptance by the Procuring Entity of the delivered supplies, for a:

- ✓ minimum period of three (3) months, in the case of Expendable Supplies, or a
- ✓ minimum period of one (1) year, in the case of Non-Expendable Supplies.

The obligation for the warranty shall be covered by either:

- ✓ retention money in an amount equivalent to at least one percent (1%) but not to exceed five percent (5%) of every progress payment, or a
- ✓ special bank guarantees equivalent to at least one percent (1%) but not to exceed five percent (5%) of the total contract price.

The said amounts shall only be released after the lapse of the warranty period or, in the case of Expendable Supplies, after consumption thereof: Provided, however, that the supplies delivered are free from patent and latent defects and all the conditions imposed under the contract have been fully met.

For Infrastructure Project please refer to Section 62.2 of the 2016 Revised IRR of RA 9184.

A complete set of **Bidding Document** may be acquired by interested Bidders until **October 21, 2021 9:00AM** from the address and website below and **upon payment** of the applicable fee, pursuant to the latest Guidelines issued by the GPPB, in the amount of:

Lot 1- Php 1,500.00 Lot 2- Php 1,000.00 Lot 3- Php 10,400.00 Lot 4- Php 7,200.00 Lot 5- Php 4,400.00

For bank-to-bank payment (Land bank of the Philippines) for the purchase of bidding documents, please coordinate with the BAC Secretariat thru bswm.bacsec@gmail.com.



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DEADLINE/SCHEDULE OF SUBMISSION AND OPENING OF BIDS:

Deadline of submission of bid proposals is on October 26, 2021, 9:00AM.

Opening of Bids is on October 26, 2021, 9:30AM at BSWM Function Hall and via videoconferencing (Zoom).

For precautionary measure against the COVID 19, bidder attendance will be through videoconferencing only. For zoom link, please email the BAC Secretariat at bswm.bacsec@gmail.com.

For guidance and information of all concerned.

(Sgd) DR. GINA P. NILO

BAC Chairperson



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Technical Specifications (LOT 3)

Item	Specification	Statement of Compliance
	Specification	Statement of Compliance[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 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

	PR 1688 LSD NSHP	
	Server System and Storage Please see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. A.1 - A.6)	
1	Database Server	
2	Application Server	
3	Domain Controller Server	
4	Network Attached Storage	

5	BackUP Tape Drive	
6	UPS fr Server	
	Network Security and SwitchesPlease see LIMS-Terms of Reference - Annex A for detailed technical specification (Ref. B.1 - B.8)	
7	Network Distribution Switch	
8	Network Core Switch	
9	Network Appliance Firewall	
10	Network DMZ Appliance	
11	Network Cabinet (6U Switch Racks)	
12	Network & Server Steel Cabinet	
13	Network Attached Storage	
14	Wireless Router	
	NOTE: Must have standard warranty, customer replaceable unit, on-site support and services	
	ATTACHED IS THE ANNEXES FOR SPECIFIC SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND ANNEX D) FOR COMPLIANCE.	
	Compliance with Section VI. Schedule of Requirement.	

REFERENCE NO:A.1CATEGORY:HARDWARE - A. Server System and Storage

QUANTITY	ITEM	TYPE
1	Server	DATABASE

TECHNICAL SPECIFICATION:

GENERATION:	7тн-10тн
PROCESSOR TYPE:	Intel Xeon Platinum Scalable
PROCESSOR CORE:	16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	2.7-3.4 GHz
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory
INTERNAL MEMORY:	64-128 GB - upgradable
STORAGE:	SAS Read-Write Intensive 20-50TB Digitally Signed Firmware - Factory
STORAGE.	Integrated
	Hot swappable drive bays, support ALL RAID Technology
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory
ditar mes.	Integrated
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated
REMOTE MANAGEMENT	Manufacturer Standard with Intelligent Provisioning, OneView Advance
SOFTWARE:	Manufacturer Standard with Intelligent Provisioning, Oneview Advance
FAN FACTOR:	Gen10 High Performance Temperature Hot swappable Fan
FORM FACTOR:	Rack Mounted
POWER SUPPLY:	Hot-plug, Fully Redundant Power Supply,
rowersorren.	Fault Tolerant Redundant, Mixed Mode
	Smart Array SAS Modular Controller, 10Gb SFP+ SR Transceiver
	High Performance Temperature Fan Kit
	Low Halogen Power Supply Kit Embedded System - Server Management
FACTORY INTEGRATED:	Software
	Gen 10 8-pin Keyed Cable Kit, 2U Large Form Factor Easy Install Rail Kit
	Gen 10 High Performance Heat Sink Kit
	Factor Generated Password
	Regulatory Product Datasheet
DECILI ATODY.	European Union Declaration of Conformity
REGULATORY:	Energy Regulation Compliance
	Security Regulatory Compliance
COMPATIBILITY:	Microsoft Windows Server Multi-language
	Red Hat Enterprise Linux
	SUSE Linux Enterprise, VMware ESXi
INPUT VOLTAGE:	220ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLUS	NCLUSION:				
QTY	UNIT	ITEM	SPECIFICATION		
1	LIC	RELATIONAL DATABASE MANAGEMENT SYSTEM	Perpetual License Windows Server SQL 2019 - Enterprise Editions x64 – English Product Key Sticker, Installation Disk, and User Manual		
1	рс	MONITOR:	Design:27-inch LED Curvature for immersive viewing, ultra- slim designResolution:1920x1080, Aspect Ratio 16:9Response Time:4msInput:VGA and HDMI Input ConnectorVoltage:220v		
3	рс	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar		
3	рс	MOUSE:	Sensor: Optical, 1000 DPI sensitivity Buttons: 2-primary buttons, clickable scroll wheel USB: wired-usb connector, plug and play, compatible to all MS Windows OS		

REFERENCE NO:A.2CATEGORY:HARDWARE - A. Server System and Storage

QUANTITY	ITEM	ТҮРЕ
1	Server	APPLICATION

TECHNICAL SPECIFICATION:			
GENERATION:	7тн~10тн		
PROCESSOR TYPE:	Intel Xeon Silver Scalable		
PROCESSOR CORE:	8~16 Core		
PROCESSOR CACHE INSTALLED:	Yes		
PROCESSOR SPEED:	2.2~3.0 GHz		
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory		
INTERNAL MEMORY:	64~128 GB - upgradable		
STORAGE:	SAS 10~20TB		
	Manufacture Digitally Signed Firmware		
	HDD Factory Integrated		
	Hot Swappable drive bays		
	Support ALL-RAID Technology		
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory		
	Integrated		
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated		
REMOTE MANAGEMENT	Manufacturer Standard Remote with Intelligent Provisioning One-View		
SOFTWARE:	Advance		
	Web-based Remote Access		
FAN FACTOR:	Gen10 High Performance Temperature Hot Swappable Fan		
FORM FACTOR:	1~4U Rack Mounted		
POWER SUPPLY:	Hot-plug, Fully Redundant Power Supply,		
	Fault Tolerant Redundant, Mixed Mode		
	Smart Array SAS Modular Controller		
	10Gb SFP+ SR Transceiver		
FACTORY INTEGRATED:	Low Halogen Power Supply Kit		
FACTORT INTEGRATED.	Server Management Software		
	Gen 10 8-pin Keyed Cable Kit		
	2U Large Form Factor Easy Install Rail Kit		
	Regulatory Product Datasheet		
	European Union Declaration of Conformity		
REGULATORY:	Energy Regulation Compliance		
	Security Regulatory Compliance		
COMPATIBILITY:	Microsoft Windows Server Multi-language		
	Red Hat Enterprise Linux		
	SUSE Linux Enterprise		
	VMware ESXi		
INPUT VOLTAGE:	220ACV		

TECHNICAL SPECIFICATION:

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

INCLU	10111		
QTY	UNIT	ITEM	SPECIFICATION
1	LIC	OPERATING	Perpetual License
		SYSTEM	Microsoft Windows Server 2019 - Enterprise Edition x64 – English
			Product Key Sticker, Installation Disk, and User Manual
10	CAL	Client Access	Microsoft Windows Client Access License
		License	
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal and
			accommodation (indoor/outdoor)

REFERENCE NO:	A.3
CATEGORY:	HARDWARE - A. Server System and Storage

QUANTITY	ITEM	CLASSIFICATION
1	Server	DOMAIN CONTROLLER

TECHNICAL SPECIFICATION:

GENERATION:	7 th ~10 th
PROCESSOR TYPE:	Intel Xeon Scalable
PROCESSOR CORE:	8~16 Core
PROCESSOR CACHE INSTALLED:	Yes
PROCESSOR SPEED:	2.2~3.0 GHz
MEMORY TYPE:	16GB DDR4 (1x16GB) Dual Rank x8 SmartMemory
INTERNAL MEMORY:	32-128 GB - upgradable
STORAGE:	SAS 5~10TB Digitally Signed Firmware HDD Factory Integrated
	Hot Swappable drive bays
	Support all RAID Technology
GRAPHICS:	Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory
	Integrated
NETWORK CONTROLLER:	Ethernet 10Gb 2-port SFP Adapter Factory Integrated
REMOTE MANAGEMENT	Manufacturer Standard with Intelligent Provisioning, OneView Advance
SOFTWARE:	Web-based Remote Management Tools
FAN FACTOR:	Gen10 High Performance Temperature Hot Swappable Fan
FORM FACTOR:	1~4U Rack Mounted
	Smart Array SAS Modular Controller
	10Gb SFP+ SR Transceiver
	Low Halogen Power Supply Kit
	Server Management Software
FACTORY INTEGRATED:	Gen 10 8-pin Keyed Cable Kit
	2U Large Form Factor Easy Install Rail Kit
	Gen 10 High Performance Heat Sink Kit
	Regulatory Product Datasheet
REGULATORY:	European Union Declaration of Conformity
	Energy Regulation Compliance
	Security Regulatory Compliance
	Microsoft Windows Server Multi-language
COMPATIBILITY:	Red Hat Enterprise Linux
	SUSE Linux Enterprise
	VMware ESXi
INPUT VOLTAGE:	220ACV

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION		
			Design: 27-inch LED Curvature for immersive viewing, ultra-slim design		
			Resolution: 1920x1080, Aspect Ratio 16:9		
1	nc	MONITOR:	Response Time: 4ms		
1	pc	MONITOR.	Input: VGA and HDMI Input Connector		
			Voltage: 220v		
3	рс	KEYBOARD:	Plug and Play USB Connection, Industry standard layout with full-size F-keys and		
			number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs, curve space bar		
			Sensor: Optical, 1000 DPI sensitivity		
3	pc	MOUSE:	Buttons: 2-primary buttons, clickable scroll wheel		
5	pe		USB: wired-usb connector, plug and play, compatible to all MS Windows OS		
5	pax	TRAINING:	Certificate of Reservation to Training - 5pax inclusion of meal and accommodation		

REFERENCE NO:A.4CATEGORY:HARDWARE - A. Server System and Storage

QUANTITY	ITEM	CLASSIFICATION
1	Storage	NETWORK ATTACHED SERVER

TECHNICAL SPECIFICATION:

7th~10th
Intel Xeon Scalable
8~16 Core
Yes
3.2 GHz and above
DDR4 Smart Memory
32~64GB upgradable, with expansion memory slot
30~50 TB raw capacity,
Support external expansion
Fibre Channel, MSA SAN Storage
Smart Array Controller
Support all RAID Technology
Hot-plug, hot swappable, SATA or SAS
Built-in GPU Nvidia PCIe 32GB Computational Accelerator Factory
Integrated
4 x 1GbE Standard
Web-based GUI
Redundant Fans
Hot swappable
1~4U Rack Mounted
SMB, NFS, iSCSI over Ethernet, FTP/S, HTTP/S
Drive Clustering Support
Management Console
Array controller to support external disk enclosures.
Replication Features – Microsoft DFS-R, optional Carbonite Double-Take
Smart Storage Administration Software
Snapshot Support – Microsoft Volume Shadow Copy (VSS)
Regulatory Product Datasheet
European Union Declaration of Conformity
Energy Regulation Compliance
Security Regulatory Compliance
Microsoft Windows Server Multi-language
Red Hat Enterprise Linux

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
			Design: 27-inch LED Curvature for immersive viewing, ultra-slim design
			Resolution: 1920x1080, Aspect Ratio 16:9
1	nc	MONITOR	Response Time: 4ms
1	pc	MONITOR	Input: VGA and HDMI Input Connector
			Voltage: 220v
			Design: Slim Multi-Device Keyboard, minimalist design and compact.
5	рс	c KEYBOARD	Connection: USB-2.4 Ghz wireless receiver, battery mode, secure wireless
Ŭ	pe		connection
			Compatible: All Windows Operating System
5	рс	MOUSE	Design: Wireless type, 1000 DPI Laser Grade Optical Sensor, Black
			Connection: Bluetooth, Wireless range 10meter, battery operated
			Compatible: All Windows Operating System
5	pax	TRAINING	Certificate of Reservation - 5pax inclusion of meal and accommodation

REFERENCE NO:A.5CATEGORY:HARDWARE - A. Server System and Storage

QUANTITY	ITEM	CLASSIFICATION
1	Backup Drive and Tape Autoloader	TAPE BACKUP DRIVE

TECHNICAL SPECIFICATION:

I ECHNICAL SPECIFICATION:		
SUPPORTED TAPE DRIVE	LTO-7, LTO-8 WORM	
TECHNOLOGIES:	SAS Drive	
SPEED (Native):	3.5MB/s	
BARCODE READER:	Standard	
MEDIA BAY:	Up to 9 Media Cartridges	
NETWORK INTERFACE:	Ethernet RJ-45	
	Serial RJ-11	
	ADI T-10	
	IPv6 Phase 1 & 2 Ready and DoD APL	
PARTIONING SUPPORT:	Yes	
FORM:	Orientation: Horizontal, 1~4U	
	Configuration: Rack-mount standard	
CONTROLLERS:	For 13G and 14G Servers	
	12Gb SAS HBA, dual port, low profile, Customer Kit	
EXPANSION CAPABILITY:	Yes	
USER INTERFACE:	Operator Control Panel	
	LCD Display Panel to check system status, Run Diagnostics, Check	
	Configuration, Verify Drive Operations, Run Inventory and Manage	
	Systems	
REMOTE MANAGEMENT:	Remove Web-based Management (RMU)	
	Access the web-based administration through LAN 10/100/1000 Base-	
	T	
	Manage the System and Upgrade Drive and Library Firmware.	
INPUT VOLTAGE:	AC power voltage 120-240 VAC	
FORM FACTOR:	1-4U Rack Mounted	
SUPPORT OPERTING	Microsoft Windows Servers, OS, Linux and Unix	
SYSTEM:		
	Perpetual license Back-up Software compatible with all LTO Tape	
INTEGRATED:	Drives	
	Supports hardware compression and AES 256-bit encryption or higher	
	Drive Imaging and Backup to NAS, RDX, FTP	
	Email notifications, auto task scheduling, reports	
POWER:	100~220VAC	
TATa and the stand of and see a second		

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION	
1	pc	STEEL	Steel Safety Vault Storage 4 layer, Storage capacity up to 30 LTO	
		STORAGE:	Cartridges	
			Combination of Digital and Manual Key Security	
100	рс	LTO TAPE	LTO Media Tape Labels 1-100	
		LABEL		
2	рс	CABLES	6Gb Mini to HD-Mini SAS Cable 5M	
30	рс	MEDIA WITH	LTO-7~8 Custom Labeled Data Cartridge WORM 15TB Compressed	
		CASE:	2.5:1	
3	рс	MEDIA	LTO-7~8 Media Cleaner Cartridge WORM	
		CLEANER:		
			Design: 27-inch LED Curvature for immersive viewing, ultra-slim design	

2	рс	MONITOR:	Resolution: 1920x1080, Aspect Ratio 16:9	
	•		Response Time: 4ms	
			Input: VGA and HDMI Input Connector	
			Voltage: 220v	
3	рс	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size	
	_		F-keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs,	
			curve space bar	
			Sensor: Optical, 1000 DPI sensitivity	
3	pc	MOUSE:	Buttons: 2-primary buttons, clickable scroll wheel	
5	pe	M000L.	USB: wired-usb connector, plug and play, compatible to all MS Windows	
			OS	
5	pax	TRAINING:	Certificate of Reservation for Training	
	-		5pax inclusion of meal and accommodation (indoor/outdoor)	

REFERENCE NO:A.6CATEGORY:HARDWARE - A. Server System and Storage

QUANTITY	ITEM	CLASSIFICATION
4	Smart UPS	UPS FOR SERVERS

TECHNICAL SPECIFICATION:

MAX CONFIGURE POWER:	20k~30kWatts/40.0kVA
TYPE:	Line Interactive
BACKUP TIME:	20~30 minutes
INPUT FREQUENCY:	Manufacture Hz Auto-sensing
INPUT VOLTAGE:	120-240VAC
OUTPUT VOLTAGE:	220V
OUTPUT VOLTAGE DISTORTION:	Less than 10% at full load
OUTPUT FREQUENCY:	Unsynchronized
OUTPUT PORT:	Depend on rack mounted server power input port plug
	requirement
TOPOLOGY:	Double Conversion On-line
NUMBER OF OUTPUT OUTLET:	10~14
BYPASS:	Internal bypass (automatic and manual)
NETWORK INTERFACE:	Ethernet connection for on-line monitoring
BATTERY LIFE SPAN:	2~5 years
FORM FACTOR:	Tower Type
FEATURES:	Alpha/Numeric LCD Display
	Smart Slot
	HotSwappable Batteries
	Network Manageable
SERVICEABILITY:	Audible alarms, User-replaceable power modules
	automatic self-test, disconnected battery notification
	user-replaceable batteries, user-replaceable intelligence modules
	predictive failure notification
SCALABILITY:	Scalable runtime field-replaceable power distribution panel
	plug-and-play external batteries
	programmable frequency
	scalable power capacity
PROTECTION:	Resettable circuit breakers
	Safety-agency approved, Generator compatible
	Input Power Factor Correction, Cold-start capable
	Frequency and voltage regulation, Power Conditioning
REGULATORY:	RoHS Certificate of Compliance
	EN 50091-1, EN 50091-2

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION	
			Design: 27-inch LED Curvature for immersive viewing, ultra-slim design	
			Resolution: 1920x1080, Aspect Ratio 16:9	
1	nc	MONITOR:	Response Time: 4ms	
1	рс	MONITOR:	Input: VGA and HDMI Input Connector	
			Voltage: 220v	
3	рс	KEYBOARD:	Plug and Play USB Wired-Connection, Industry standard layout with full-size F-	
	•		keys and number pad, QWERTY Keys US-English, Sturdy adjustable tilt legs,	
			curve space bar	
			Sensor Optical, 1000 DPI sensitivity	
3	рс	MOUSE:	Buttons: 2-primary buttons, clickable scroll wheel	
5	pe	M005L.	USB: wired-usb connector, plug and play, compatible to all MS Windows OS	
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal	
			and accommodation (indoor/outdoor)	

REFERENCE NO: B.1 HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
4	Network	DISTRIBUTION SWITCH

TECHNICAL SPECIF	ICATION:
NUMBER OF	48 PoE Ports
PORTS:	4 SFP+ Ports
SWITCHING	10-176
(Gbps):	
MEMORY (GB):	1-2 GB
FLASH (MB):	128-256
MAC ADDRESS	64-128K
TABLE:	
	RJ45 Console – Web based GUI Remote Configuration
MANAGEMENT:	Manage through Capture Security, SSH, Console Acccess, Https Access, SNMP, User
	Management, Dual partition for firmware images,
	DHCP Snooping, DHCP Relay, SNTP, Radius Authentication
	Port Control and Settings, PoE, Port Security, EEE, STP, Loopback Detection, Link
SWITCHING	Aggregation, LACP, Port Mirror, Jumbo Frames, LLDP, IGMP Snooping, Multicase
TECHNOLOGY:	Filtering, QoS, CoS based on 802.1p priority, COS based on DSCP Boot/DHCP
	Client, Bandwirth Control, RMON, Port Statistics, Static Routing
	Jumbro Frames, Auto-negotiation for Port Speed and Duplex, MDI/MDIX Auto-
LAYER 2	crossover, MAC Bridging/STP, Rapid Spanning Tree Protocols (RSTP), Muttiple
FEATURES:	Spanning Tree Protocol (MSTP), VLAN Tagging, Guest VLAN and Voice VLAN,
	Flow Control and Back-pressure, QoS IEEE 802.1p Based Priority Queuing, IP
	TOS/DSCP Based Priority Queuing
FORM FACTOR:	Network Cabinet Rack Mounted
	802.1x Authentication, Syslog Collection,
SECURITY:	IP/MAC ACL, ACL, IEEE 802.1x, IEEE 802.1x Guest and Fallback VLAN, IPS, AV,
	Application Control, Botnet, Syslog Collection,
	IEEE 802.1x authentication Port-based
	IEEE 802.1x Guest and Fallback VLAN
STANDARD:	PoE Standard 802.3at, 802.3 af
VOLTAGE	120-220AC Volt
REQUIREMENT:	
	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI
REGULATORY:	Class A, TUV/GS, NIST (National Institute of Standard and Technology)
	DISA (Defense Information System Agency)

 DISA (Defense Information System Agency)

 Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
100	рс	РАТСН	Cat6 RJ45 Ethernet Patch Cable – 6" inch
		CABLE	
100	рс	РАТСН	Cat6 RJ45 Ethernet Patch Cable – 0.3m/1ft
		CABLE	
100	рс	РАТСН	Cat6 RJ45 Ethernet Patch Cable – 3m/10ft
		CABLE	
200	рс	CONNECTOR	RJ 45 Connector with Rubber boot
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of
			meal and accommodation (indoor/outdoor)

REFERENCE NO:B.2CATEGORY:HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	CORE SWITCH

TECHNICAL SPECIFICATION:

NUMBER OF	24 PoE Web-Smart Core Switch
PORTS:	2 SFP+ Ports 10Gb
PORT SPEED:	RJ-45 Ethernet 10/100/1000 PoE Ports
LAYER 2:	Auto-sensing IEEE 802.3x IEEE 802.x STP, RSTP, MSTP Lookback Detection, Link Aggregation IGMP Snooping, LLDP/LLDP-MED/Cable Diagnostic, Jumbo Frame VLANs - 802.1x, Port-Based, Management, Guest, Voice/Surveillance
	QoS – Rate Limiting, Prioritization, Traffic Scheduling, SPQ, WRR, Hybrid, DiffServ, HW Queues, IPv4, IPv6
QOS:	Rate-limiting, Priority Queues per port Traffic Scheduling, Strict Priority Queuing (SPQ) Weighted Round Robin (WRR) Port-Based QoS, IPv4/IPv6 DSCP DiffServ, HW Queues
MANAGEMENT:	Switch Management, CLI via telnet, Web-based Management, SNMP, DHCP Client, Snooping, SNMP Standard, RMON, System Status, NTP, Dual Configuration, Syslog, Event/Error Log, Memory Flash Log, System Password Protection
FORM FACTOR:	Rack Mounted
SECURITY:	802.1x Authentication, Syslog Collection, IP/MAC ACL, ACL, IEEE 802.1x, IEEE 802.1x Guest and Fallback VLAN, IPS, AV, Application Control, Botnet, Syslog Collection, IEEE 802.1x authentication Port- based, IEEE 802.1x Guest and Fallback VLAN
STANDARD:	PoE Standard 802.3at, 802.3 af
VOLTAGE	120-220AC Volt
REQUIREMENT:	
REGULATORY:	1RK47-0E7, FCC Class A ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI Class A, TUV/GS, NIST (National Institute of Standard and Technology) DISA (Defense Information System Agency)
Mannantry standard	manufacturer warranty, customer replaceable unit on-site support and services

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
2	рс	SFP Module	RJ45 SFP Module
2	рс	SFP Module	Fiber Optic Module
2	roll	CABLE	60 meters Velco Strap reusable cable ties (20mm width)
		STRAP	
5	pax	TRAINING:	Certificate of Reservation to ICT Training - 5pax inclusion of meal and
			accommodation (indoor/outdoor)

REFERENCE NO:B.3CATEGORY:HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	APPLIANCE FIREWALL

TECHNICAL SPECIFICATION:

TECHNICAL SPECIFICA	
	Firewall 65 Gbps
	IPSec VPN 6.1 Gbps
	IPS 14.7 Gbps
PERFORMANCE:	Threat Protection 3.4 Gbps
I ERI ORMANCE.	SSL Decryption 770 Mbps
	Ethernet Interface 8x GbE, 2x 10 GbE SFP+
	Flexi Port Slots
	Power Supply Redundancy – Internal
DEEP PACKET	TLS 1.3 inspection, Intrusion Prevention (IPS)
INSPECTION:	Treat Protection Detection
	Proxy-based dual-engine AV Scanning
	Perimeter defenses, Blocking Policy
ENCRYPTED	TLS 1.3, Intelligent Traffic Selection
TRAFFIC:	Pre-packaged exception list,
	Powerful policy engine, Ports/Protocol, Support all Cypher Suites
	Unmatched visibility and error handling
MACHINE LEARNING	Multiple Machine Learning Models
PROTECTION: Static File Analysis	
CLOUD SANDBOX:	Dynamic Analysis
	Deep learning
	Static File Analysis
WEB PROTECTION:	Advance Web Protection, Pharming Protection, HTTPs Scanning, Potential
	unwanted app control
	Security Heartbeat, Destination Heartbeat Protection, Synchronized App
SECURITY:	Control, Lateral Movement Protection, Synchronized User ID, Multi-layered,
	call-home protection, Intelligent Firewall Policies, Traffic light style indicators
	User identity powers all firewall policies and reporting, User Threat
	Identification and Monitoring, Synchronized User ID, Flexible authentication
USER IDENTIFY:	options including directory services, two-factor authentication options
	including directory services.
SOFTWARE:	Manufacture built-in software, Remote Management
FORM FACTOR:	Rack Mounted
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE	120-220AC Volt
REQUIREMENT:	How swappable power supply
	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI
REGULATORY:	Class A, TUV/GS, NIST (National Institute of Standard and Technology) , DISA
	(Defense Information System Agency)

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
1	рс	POWER	Hot swappable power supply
		SUPPLY	
1	рс	MODULE	Connector for PoE Power Module
5	pax	TRAINING	Certificate of Reservation to ICT Training - 5pax inclusion of meal and
			accommodation (indoor/outdoor)

REFERENCE NO:B.4CATEGORY:HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	DMZ APPLIANCE

TECHNICAL SPECIFICATION:

I ECHNICAL SPECIFICA	
	DMZ APPLIANCE 65 Gbps
	IPSec VPN 6.1 Gbps
	IPS 14.7 Gbps
PERFORMANCE:	Threat Protection 3.4 Gbps
FERFORMANCE.	SSL Decryption 770 Mbps
	Ethernet Interface 8x GbE, 2x 10 GbE SFP+
	Flexi Port Slots
	Power Supply Redundancy – Internal
DEEP PACKET	TLS 1.3 inspection, Intrusion Prevention (IPS), Treat Protection Detection,
INSPECTION:	Proxy-based dual-engine AV Scanning, Perimeter defenses, Blocking Policy
ENCRYPTED	TLS 1.3, Intelligent Traffic Selection, Pre-packaged exception list, Powerful
TRAFFIC:	policy engine, Ports/Protocol, Support all Cypher Suites, Unmatched visibility
	and error handling
MACHINE LEARNING	Multiple Machine Learning Models, Static File Analysis
PROTECTION:	
CLOUD SANDBOX:	Dynamic Analysis, Deep learning Static File Analysis
WEB PROTECTION:	Advance Web Protection, Pharming Protection, HTTPs Scanning, Potential
	unwanted app control
	Security Heartbeat, Destination Heartbeat Protection, Synchronized App
SECURITY:	Control, Lateral Movement Protection, Synchronized User ID, Multi-layered,
	call-home protection, Intelligent Firewall Policies, Traffic light style indicators
	User identity powers all firewall policies and reporting, User Threat
USER IDENTIFY:	Identification and Monitoring, Synchronized User ID, Flexible authentication
	options including directory services, two-factor authentication options
	including directory services.
SOFTWARE:	Manufacture built-in software, Remote Management
FORM FACTOR:	Rack Mounted
STANDARD:	PoE Standard 802.3at, 802.3af
VOLTAGE	120-220AC Volt
REQUIREMENT:	
	1RK47-0E7, FCC Class A, ICES Class A, CE EMC Class A, LVD RoHS, C-Tick, VCCI
REGULATORY:	Class A, TUV/GS, NIST (National Institute of Standard and Technology) , DISA
	(Defense Information System Agency)

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
1	рс	POWER	Hot swappable power supply
		SUPPLY:	
1	рс	MODULE	Connector for PoE Power Module
5	рах	TRAINING:	Certificate of Reservation to ICT Training - 5pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO:	B.5
CATEGORY:	HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
2	Network	NETWORK CABINET (6U Switch Rack)

TECHNICAL SPECIFICATION:

CABINET TYPE:	6U Wall Mounted Network Rack Cabinet	
RACK TYPE:	Glass Enclosure with Aircon duct hole at the back with intake fan	
RACK HEIGHT:	6U	
RACK DEPT:	Shallow	
MAX DEVICE DEPT (cm):	41.94	
DEVICE COMPATIBILITY:	Patch Panel, Network Switch, UPS	
COLOR:	Black	
FRONT PANEL:	Tempered Glass Door with keylock	
GROUNDING LUG:	Front and Back door frames	
BUILT-IN CABLE:	Yes	
EXTRA WIDE:	Yes	
COOLING FAN:	Cabinet Top with on/off switch to be use as redundant backup if aircon	
	supply fails	
RACK SENSOR:	Environmental Temperature heat/fire sensor	
POWER OUTLET UNITS:	30A, Single Phase, 4 Standard AC-Power Plug, 100-240V	
STANDARD	RoHS, UL/CSA 60950-1	
COMPLIANCE:	IEA-310-E, IP20 Protecting Rating	
Warranty, standard manufacturar warranty, sustamor raplaceable unit, on site support and services		

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services, initial installation and setup.

QTY	UNIT	ITEM	DESCRIPTION	
2	рс	Patch Panel	Cat6 - 24 Port Network Patch Panel	
			Compatible to 6U racks	
			Future-proof your network connection for 10-Gigabit Ethernet with	
			this durable RJ45 patch panel	
			Gold plated contacts ensure a correction free connection.	
			Numbered ports and color-coded T568A and T568B	
			Network patch panel complies with the UL fire safety requirement	
			(E486099)	
50	рс	CAGENUT	M5 Rack Mounted Cagenuts and Screws	
20	рс	RJ45	Cat6 RJ-45 Connector Passthrough type, Clear Polycarbonate	
		Passthrough		
			Ethernet Connector: RJ45	
			Gender: Male	
			LAN Category: Cat 5e/6a	
		pc RJ45 Clear Connector	Number of ways: 8	
100	na		Shield Type: UTP	
100	pc		Orientation: Straight	
			Length: 13.71mm	
			Depth: 42.4mm	
			Contact Material: Copper Alloy	
			Contact Plating: Gold	

REFERENCE NO:	B.6
CATEGORY:	HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	NETWORK & SERVER STEEL CABINET

TECHNICAL SPECIFICATION:

CABINET TYPE:	······································	
	Compatible to all network switches 24/48 ports standards, Levelling Feet	
DESCRIPTION	IP54 with side-mounted cooling solution, 3 power levels, 1.0-1.9 kW cooling capacity Cooling device for Industrial purposes at high environmental temperature up to +55 degree	
	Celsius, Industrial-qualified steel sheet housings	
	Elektromechanical thermostat and fault indicating contact	
	Temperature selection directly at the device	
	Hose for controlled condensate drain ensures protection of equipment in the cabinet from	
	moisture, Air handling unit (2U above) allows the specific routing of the cold air in front of	
	the 19" level, Supplied completely ready-for-installation including prepared cabinet with all	
	openings, sealing's, cables etc.	
FRONT DOOR:	Front door with window made of certified safety glass	
	Profile half-cylinder locking	
KEYBOARD	Lockable Keyboard Drawer 2U, pullout on telescopic rails, USB, layout:English US 101 keys	
DRAWER:	with padded palm layer.	
MONITOR:	Pull-out shelf depth adjustable 1U for monitor and keyboard	
VENTILATION: Roof Fan with 2 fans 1U		
	Blind Panels for side-mounting - 2 panels in set, serves as blinding and control of the air flow	
	rack mounted 1U, Digital temperature display, Output: 2 relais, dry, programmable 250V	
TEMPERATURE	AC/2A, Display of relay status, Type of sensor: diode, cable length 3m	
CONTROLLER:		
LIGHTNING UNIT:	19" Comfort 1U, 2spotlight each, front-sided on/off switch	
	touch-proof housing, power supply via power cord	
	power supply: 230V, 50Hz	
CABLE TRAY:	Vertical Cable Management Panel for side-mounting 2 pieces in set	
	19" Cable Routing Panel for orderly and clear cable routing	
	3 unit of 40x40mm Cable Routing Bracket	
	3 unit of 80x80 40x40mm Cable Routing Bracket	
	3 unit of 85x250 40x40mm Cable Routing Bracket	
NOISE:	Noise level 67 dB(A)	
POWER SUPPLY:	230V/50Hz, Earthling Cables 5meter	
STANDARD	RoHS, UL/CSA 60950-1, IEA-310-E, IP20 Protecting Rating	
COMPLIANCE:		
Varrantu standard	manufacturer warranty customer replaceable unit on-site support and services initial	

Warranty: standard manufacturer warranty, customer replaceable unit, on-site support and services, initial installation and setup.

QTY	UNIT	ITEM	DESCRIPTION	
2	рс	Smoke Detector	Optical Smoke Detector IP40, Measuring Range VdS G29219 Approval	
2	рс	Temp Sensor	Temperature Sensor Analog, Measuring Range 50°C	
1	set	Blind Panels	For Side-Mounting, for covering the area on the side of the 19" profiles in	
			42U	
			800mm width network-and server cabinets	
			Serves as blinding and control of the air flow	
			Mounting left and sided possible	
4	рс	Network Patch	19-inch Cat56-Cat6 110-Type Patch Panel	
		Panel	For TIA/EIA-T568B/A wiring configuration	
2	рс	Cable Panel	19" Cable Routing Panel 1U with front-sided cover color: deep black	
2	рс	Cable Panel	19" Cable Routing Panel 2U with front-sided cover color: deep black	

REFERENCE NO:B.7CATEGORY:HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network Storage	NETWORK ATTACHED STORAGE

TECHNICAL SPECIFICATION:

CPU:	Intel 2.9~3.2 Ghz or above	
MEMORY:	4~8GB DDR4 expandable up to 16GB	
HARDWARE:	Manufacture Built-in encryption	
DRIVE:	2~4bay hot swappable drive bay, SSD	
	Support RAID Technology	
EXTERNAL PORT:	3.0 USB port, eSATA port	
STORAGE CAPACITY:	10-30TB	
LAN PORT:	10/100/1000BaseT, Wake on LAN/WAN, Schedule power	
	on/off	
COMPATIBILITY:	All Microsoft Windows Operating System	
VOLTAGE INPUT:	AC power voltage 100-240 VAC	
SYSTEM FAN:	Built-in	
COMPATIBILITY:	Microsoft Windows Server Multi-languange	
	Red Hat Enterprise Linux	
REMOTE MANAGEMENT	Web-based GUI	
SOFTWARE:	Management Console	
FORM FACTOR:	Desktop	

Warranty: standard warranty, customer replaceable unit, on-site support and services

REFERENCE NO:B.8CATEGORY:HARDWARE - B. Network Security and Switches

QUANTITY	ITEM	CLASSIFICATION
1	Network	WIRELESS ROUTER

TECHNICAL SPECIFICATION:

ENVIRONMENT:	Indoor		
SIMULTANEOUS DUAL-	Yes		
BAND:			
RADIO RATE:	2.4 GHz – 450Mbps		
	2.4 and 5GHz MIMO – 3x3		
	5 GHz – 1300Mbps		
SECONDARY ETHERNET	Yes		
PORT:			
LOUDSPEAKER:	Built-in		
PoE MODE:	802.3at PoE+		
FORM FACTOR:	Wall Mount, Ceiling Mount		
WIRELESS UPLINK:	Yes		
NETWORK INTERFACE:	10/100/1000 Ethernet Ports		
	10Gbps Ethernet Ports		
POWER METHOD:	802.3 af PoE , Input Voltage: 220AC Volt		
WIFI-STANDARD:	802.11 a/b/g/n/r/k/v/ac		
WIRELESS SECURITY:	WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES)		
BSSID:	8~32 Radio		
STANDARD:	802.11ac Data Rates -6.5Mbps to 867 Mbps		
	802.11n Data Rate 6.5Mbps to 300 Mbps		
	802.11a Data Rate 54Mbps		
	802.11g Data Rate 54 Mbps		
	802.11b Data Rate 11 Mbps		
TRAFFIC MANAGEMENT:	VLAN 802.1Q, Advance QoS, Guest Traffic Isolation, WMM, Concurrent		
	Clients 250+		
REMOTE MANAGEMENT:	Web based Console Administration		
PoE OUT:	48V Pass-Through		
CERTIFICATION:	CE, FC, IC		
	DFS Certification		
COMPATIBILITY:	Support All Windows		
	Support Connection to Network Core, Distribution Switches		

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
5	рс	MOUSE:	Design: Wireless type, 1000 DPI Laser Grade Optical Sensor, Black
			Connection: Bluetooth, Wireless range 10meter, battery operated
			Compatible: All Windows Operating System
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax inclusion of meal
			and accommodation (indoor/outdoor)

Name and Signature of Authorized Representative

Company Name

Date Signed

Technical Specifications (LOT 4)

Item	Specification	Statement of Compliance
		[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 Bidder's 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 applicable laws and issuances.]

	PR 1689 LSD NSHP
1	DIGITAL PABX
	SCALABLE MANAGEMENT SYSTEM:
	Manufacture SDN Software
	Line Extension Management
	Unified Operating Management
	Comprehensive Call logs
	Advance Interactive A.I. Receptionist Features
	CONNECTIVITY:
	10/100/1000 Mbps Ethernet Port
	Analog Telephone Port or Adapter
	IP Phone (SIP)

	Digital Key Phone	1
	Singe Line Telephone (SLT)	
	PSTN (Public Switch Telephone Network	
	IP/DIGITAL OPERATOR CONSOLE:	
	Compatible with IP and Digital Key Phone	
	Alphanumeric Dial Pad Keys	
	Fixed Function Keys (Conference, Redial, Transfer)	-
	Built-in LED Display	
	Message Wait and Ringer Lamp	
	Headset Interface Port 3.5mm, USB Port	
	High Quality Full Duplex Speaker Phone	
	Adjustable Desk Stand	
	20-40 Programmable Keys	
	INTERNET SECURITY/GATEWAY APPLIANCE:	
	Connection speed and duplex mode	
	Voltage Input 100-240VAC	
	Network/VLAN Setting	
	Form Factor - Rack Mounted	
	Network Interface 10/100/1000 RJ45 Lan Ports	
	10/100/1000 RJ 45 WANT Ports	
	1/10G SFP + LAN Port and WAN Port	
	IDS/IPS Throughput >= 3.5 Gbps	
	System Memory ≥ 4 GB,	
	On-Board Flash Storage 32 GB eMMC	
	CERTIFICATION: Certification CE, FCC IC	
	SYSTEM FAN: Built-in with redundant	
	AC VOLTAGE INPUT: 220v	
	Inclusion:	-
	SIP ACCOUNT 30 users for SIP Account	-
	HEADSET Customer Center headset for front desk with	
	microphone and wireless compatible to Digital PABX	
	TRAINING: Certificate of Reservation to Training or	
	Webinar - 5pax inclusion of meal and accommodation	
	(indoor/outdoor)	
2	TELEPHONE VOIP UNIT	
2	DISPLAY SCREEN: 5-inch to 10-inch (Diagonal), Multi-	
	touch, Full Color 1080p	
	LED INDICATOR: Power LED, Green, Amber, Standby	
	HANDSET: Dynamic receiver 32 ohm/101 dB/ 30mW	
	Microphone Omni-Directional /-36 dB/2.2K ohm	
	ECHO CANCELLATION: DSP Removing Ambient Noise	-
	Acoustic Echo	
	POWER INPUT: PoE 802.3af standard	+
	HANDS-FREE SPEAKER: mono/stereo	
	HANDS-FREE MICROPHONE	
	Omnidirectional	
	mono/stereo microphone	
	Bluetooth wireless	
	CONNECTIVITY:	
	10/100/1000 Ethernet Ports	
	USB 2.0, 3.0, Micro-USB Port, Bluetooth	
	HEADSET SUPPORT:	
	3.5mm Audio Jack	
	Bluetooth headset	
	OPERATION BUTTON:	
	Volume up/down	
	Media detection	
	Touch screen display	

1	HADDWADE, Drogossor, Storage 10CD, DAM 9CD	
	HARDWARE: Processor, Storage 10GB, RAM 8GB	-
	VOICE CODEC: G.722/Speex/iLBC/PCMU.PCMA/GSM	
	SOFTWARE: Android, Manufacture Communicator Software	
	COMPATIBILITY:	
	Minimum Windows 10	
	Compatible to DIGITAL PABX (Reference C.1)	
	CERTIFICATION: Broadsoft/FlowRoute/PBXRealtime, CE,	
	FCC IC	
	SYSTEM FAN: Built-in with redundant	
	Inclusion:	
	HEADSET Compatible to Reference No. C.1 (Digital PABX)	
	Telephone Voip Unit requirements	
	RJ45 Patch Cable Compatible to Telephone Voip Unit	
	requirements, 2meters	
	2021-07-1190/LSD/NSHP	
3	USB 3.1 256GB Flash Drive	
4	USB 3.0 Hub, 4-Port	
5	External Hard Drive, 2TB Capacity	
6	Type C to USB Coverter	-
7	Extension Cord, Universal Outlet, 6 Gang	
8	4K USB Webcam with HDR	
9	Powerbank, 20,000 mah	
10		
10	Baby Jack Headset with microphone	-
	VideoCard: HD7730 2GB DDR5	
12	Memory: RAM 8GB DDR4 2133	
13	Power Supply: Rave 80 Plus 600 watts	
14	USB External DVD Rewritable Drive	
15	Wireless Presenter Device with laser pointer	
16	USB Extender 3.2 Gen 1 (5Gbps) 15meters	
17	HDMI Extender, 4k Resolution	
18	Intel Gigabit Ethernet Adapter	
	- Data Rate Per Port 10/100/1000 Mbps.	
	- Speed & Slot Width 2.5 GT/s, x1 Lane.	
19	PCI Dual Band WiFi Adapter	
	- IEEE 802.11ac Standard	
	- 2.4-5Ghz upto 867Mbps speed	
	- support WiFi Protocols	
	- high performance two-way transmission	
	- windows compatible	
20	Solid State Drive (SSD) 2.5-inch 1TB	
21	Solid State Hybrid Drive (SSHD) 3.5-inch 1TB	
22	100-inch Motorized HD Projector Screen	
23	Cat6 RJ45 Ethernet Patch cable (6" inch)	-
23	Cat6 RJ45 Ethernet Patch cable (0 mel)	
25	Cat6 RJ45 Ethernet Patch cable (3m/10ft)	+
25	RJ45 Rubber Boots	+
20	RJ45 Connector	+
27	UTP Cat6 Ethernet Cable	-
<u>28</u> 29		+
29	Network Microscanner video, data and voice wiring 2021-07-1189/LSD/NSHP	
	Mobile Phone	
	Screen: AMOLED Display	
	OS: Android 11	
30	Chipset: must be Snapdragon 660-680	
	CPU: Octacore	
	RAM: 6GB	
	Storage: 128GB Capacity	
	Camera: must be 48mp rear and 13mp front	

	Sim Card: Dual (Nano Sim)	
	Network: 4G LTE	
	Battery: min of 4500mAh Li-Po battery	
	2021-1687/LSD/NSHP	
	PROJECTOR	
	FORM TYPE: Desktop, Tabletop digital with remote control	
	BASIC FUNCTION: Freeze; Output Source Auto Select;	
	Image Brightness Adjustment/Control; Auto-Detect Aspect	
	Ratio	
	EXTENDED FUNCTION: Still Image Capture; Video	
	Capture; Digital Scroll/Pan/Tilt; Image File Play/Slideshow;	
	Split Screen	
	CAMERA: With Optical Zoom, Camera Sensor 1/2.7 inch	
	CMOS Sensor	
21	ILLUMINATION: LED Bulb	
31	PIXELS: 5MP~16MP (1920x1080 pixels)	
	FRAME-PER-SECONDS (FPS): 30-40	
	ZOOM: 10x, 12x, 20x, 16x	
	MICROPHONE: built-in	
	OUTPUT RESOLUTION: Full HD (1080p)	
	AV RECORDING: built-in	
	WEIGHT: lightweight (2-3kg)	
	INTERFACE PORT: HDMI, SD, USB-B, VGA, Analog RGB	
	SECURITY: Kensington Lock, Security Lock Hole	
	INPUT VOLTAGE: 100-240ACV	
	CERTIFICATION: TCO Certified	
	With Mouse: USB-wireless mouse, Black, All MS Windows	
	Compatible	
	3-buttons + 1 wheel for scroll	
	2.4Ghz wireless with nano-receiver	
	Strong connection for up to 10 meters	
	USB Hub: 4-port USB 3.0 portable hub	
	LED Status Indicators	
	Speed up to 5Gbps	
	Projector Bag: Nylon – Thickly padded projector bag with	
	compartment and slip pocket	
	Air Mesh Technology Design, comfort and breathability	
	Projector holder: Stainless Fabricated Document Projector	
	Holder	
	Wall Mounted to install inside laboratory conference room.	
	Installation of cable tray for electrical and Safety Switch	
	2021-1833/LSD/NSHP	
	Mobile Tablet	
	CPU: must be atleast Snapdragon 625-660	
32	Core: Octacore	
	System: Android 10	
	Ram: up to 4GB-6GB	
	ROM: 64 GB or 128 GB	
	Workstation and Laptop Computers with accessories	
	Please see LIMS-Terms of Reference - Annex A for detailed	
22	technical specification (Ref. D.1 - D.10)	
33	Workstation Computer	
34	Workstation Computer with Printers	
35	Windows Laptop	<u> </u>
36	Macbook Pro Laptop	
37	Industrial Multi-Function Printer	<u> </u>
38	Portable HD Projector	<u> </u>
39	DSLR Camera with Kit Lens	<u> </u>
40	Video Conferencing Device	l

41	Android Tablet	
	NOTE: Must have standard warranty, customer replaceable	
	unit, on-site support and services	
	ATTACHED IS THE ANNEXES FOR SPECIFIC	
	SPECIFICATION PER ITEM (ANNEX A, ANNEX B AND	
	ANNEX D) FOR COMPLIANCE.	
	Compliance with section VI. Schedule of Requirement	

REFERENCE NO:D.1CATEGORY:HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
45	Desktop Computer	WORKSTATION COMPUTER

TECHNICAL SPECIFICATION:

CHIPSET:	Intel	
PROCESSOR:	Core i5~Core i7	
	2.7Ghz~3.7Ghz, 12MB cache	
GRAPHICS:	Integrated Intel UHD Graphics	
MEMORY:	8~16GB, DIMM Socket, DDR4	
STORAGE:	SSD 500GB~1TB	
CPU DIMENSION:	less than or equal to Height (14-inch),	
	Width (4-inch) Depth (13-inch)	
WEIGHT:	less than or equal to 7.0kg	
NETWORK:	Onboard GbE Ethernet LAN Port	
	Supports Wake-OnLAN,	
WIRELESS:	Built-in Intel Wireless AC (WiFi) Technology	
PORTS:	Front Ports: USB 3.1, 2.0 Microphone, Headset	
	Rear Ports: USB 3.1, 2.0, Display Port, HDRMI, Serial, Gigabit Ethernet,	
	Audio Line-out.	
FORM FACTOR:	Mini-tower	
POWER SUPPLY:	400W or equivalent – 220ACv	
CERTIFICATION	HyperWorks, Microstation, GreenGuard, 80PLUS Platinum,	
COMPLIANCE: Energy Star, ISV Certifications, Esri Certification, PLM Certification		

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION	
45	рс	KEYBOARD	USB-wired keyboard, Black, US Standard, All MS Windows	
			Compatible	
			QWERTY keys and NUMPAD, Highlighted Common Microsoft	
			Shortcut keys	
45	pc	MOUSE	USB-wireless mouse, Black, All MS Windows Compatible	
			3-buttons + 1 wheel for scroll	
			2.4Ghz wireless with nano receiver	
			Strong connection for up to 10 meters	
45	рс	MONITOR	LED Monitor 27-inch with Built-in Camera, Full HD infrared	
			sensor	
			HD 1080p Resolution, Input Voltage 220ACvolt	
45	рс	SPEAKER	USB Table SPEAKER Microphone with mute function button	
		MICROPHONE	Wide pick-up distance up to 10meters, with Noise and Echo	
			Cancellation	
45	рс	UPS BACK-UP	700VA/420Watts, 4-6 IEC Outlets, Line-Interactive, 3 Outlet with	
			surge protection, Output Voltage-230v, Input Voltage-220v	
5	pax	TRAINING:	Certificate of Reservation to Training or Webinar - 5pax	
			Inclusion of meal and accommodation (indoor/outdoor) – if	
			applicable	

REFERENCE NO:D.2CATEGORY:HARDWARE - D. Workstation and Laptop Computers with Accessories

QUANTITY	ITEM	CLASSIFICATION
6	Desktop Computer	WORKSTATION COMPUTER WITH PRINTER

TECHNICAL SPECIFICATION:

Intel		
Core i5-Core i7, 2.7Ghz~3.7Ghz, 12MB cache		
Integrated Intel UHD Graphics		
8~16GB, DDR4		
SSD 500GB~1TB		
less than or equal to Height (14-inch),		
Width (4-inch) Depth (13-inch)		
less than or equal to 7.0kg		
Onboard GbE Ethernet Port		
Supports Wake-on-LAN		
Optional for Ethernet adapters		
Built-in Intel WiFi		
USB 2.0, 3.0, HDMI Port		
Microphone and Headset Port		
Audio line-out		
Mini-tower		
HyperWorks, Microstation, GreenGuard, 80PLUS Platinum,		
Energy Star, ISV Certifications, Esri Certification, PLM Certification		

Warranty: standard warranty, customer replaceable unit, on-site support and services

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QTY	UNIT	ITEM	DESCRIPTION
6	рс	PRINTER	Desktop Printer
			Multi-Function Printer (Print, Scan, Copy)
			A4, Legal Size Paper tray
			Ink Bottle/Cartridge Type – Black, Cyan, Magenta, Yellow
			Input voltage 220v
6	рс	KEYBOARD	USB-wired keyboard, Black, US Standard, All MS Windows
			Compatible
			QWERTY keys and NUMPAD, Highlighted Common Microsoft
			Shortcut keys
6	рс	MOUSE	USB-wireless mouse, Black, All MS Windows Compatible
			3-buttons + 1 wheel for scroll
			2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters
6	рс	MONITOR	LED Monitor 27-inch
			Built-in Camera, Full HD infrared sensor, HD 1080p Resolution
6	рс	SPEAKER	USB Table SPEAKER Microphone with mute function button
		MICROPHONE	Wide pick-up distance up to 10meters, with Noise and Echo
			Cancellation
6	рс	UPS BACK-UP	700VA/420Watts, 4-6 IEC Outlets, Line-Interactive, 3 Outlet with
			surge protection, Output Voltage-230v, Input Voltage-220v

REFERENCE NO:D.3CATEGORY:HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	DESCRIPTION
1	Laptop	WINDOWS LAPTOP

TECHNICAL SPECIFICATION:

CHIPSET:	Intel	
PROCESSOR:	Intel Core i7~i9, 3.0Ghz and above, 9thGen higher	
	Compliant to multi-threaded performance	
DISPLAY:	13~14" diagonal LED Anti-Glare	
	Intel/Nvidia/Radeon Graphics Technology	
GRAPHICS:	Integrated Intel UHD Graphics	
MEMORY:	8~16GB, DDR4	
STORAGE:	1TB TLC SSD	
WEIGHT:	1~2 kg / 4 pounds	
NETWORK:	100/1000Mbps/10Gbps 802.3ae Ethernet RJ-45 Port	
	Auto-sensing	
	USB-Ethernet Port Adapter	
KEYBOARD:	Clickpad, Spill-Resistant, US 101 English Qwerty type	
WIRELESS TECHNOLOGY:	Bluetooth 5.0 combo	
	compliant with 802.11 b/g/n/ac standard	
MOBILE BROADBAND:	4~5G LTE-Advanced Mobile Broadband	
AUDIO:	Dual-stereo speakers	
	multi array microphone	
PORTS:	USB-type-C, USB 3.1, headphone/microphone combo, HDMI 2.0	
CERTIFICATION:	AMT SSL Certificate compliant to Intel vPro technology	
	EPAT Registration	
	Energy Start Qualification and TCO Certification	
	Manufacturer Noise Cancellation Software	
	Compliant to multi-threaded Performance	

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
			USB-wireless mouse, Black
1	рс	MOUSE:	All MS Windows Compatible
	I		3-buttons + 1 wheel for scroll
			2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters
			Nylon Materials - Thickly padded laptop with 13~14 inch display
1	рс	LAPTOP	Compartment with 10" tablet sleeve /
	•	BACKPACK:	slip pocket / pen loops / zippered compartment / Air Mesh
			Technology Design for comfort and Breathability
1	рс	CHARGER:	Compatible portable laptop charger for travel
1	рс	PORTABLE	Portable Green Screen 142cm double-sided with case
		SCREEN:	Hook-n-loop straps allow to secure connection to the chair
			Green background made of Polyester Fabric, Flexible metals shape,
			collapsible
1	рс	OPERATING	Windows 10 Professional English x64Edition
		SYSTEM:	with DVD Installation DISK and Serial Key sticker, OEM License
1	pc	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English, x64Edition
			with DVD Installation DISK and Serial Key sticker, OEM License

REFERENCE NO:D.4CATEGORY:HARDWARE - D. Workstation and Laptop Computer with accessories

QUANTITY	ITEM	DESCRIPTION
2	Laptop	WINDOWS LAPTOP

TECHNICAL SPECIFICATION:

CHIPSET:	Intel		
PROCESSOR:	Intel Core i7~i9, 3.0Ghz and above, 9thGen higher		
	Compliant to multi-threaded performance		
DISPLAY:	15~17" diagonal LED Anti-Glare, Intel		
	Nvidia/Radeon Graphics Technology		
GRAPHICS:	Integrated Intel UHD Graphics		
MEMORY:	8~16GB, DDR4		
STORAGE:	1TB TLC SSD		
WEIGHT:	1~2 kg / 4 pounds		
NETWORK:	100/1000Mbps/10Gbps 802.3ae		
	Ethernet RJ-45 Port, Auto-sensing,		
	USB-Ethernet Port Adapter		
KEYBOARD:	Clickpad, Spill-Resistant, US English Qwerty Type 101		
WIRELESS TECHNOLOGY:	Bluetooth 5.0 combo		
	compliant with 802.11 b/g/n/ac standard		
AUDIO:	Dual-stereo speakers		
	Multi array microphone		
PORTS:	USB-Type-C, USB 2.0, 3.0, Headphone/Microphone Combo, HDMI 2.0		
INPUT VOLTAGE:	AC 220v		
CERTIFICATION:	AMT SSL Certificate compliant to Intel vPro technology		
	EPAT Registration		
	Energy Start Qualification and TCO Certification		
	Manufacturer Noise Cancellation Software		
	Compliant to multi-threaded Performance		

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
			USB-wireless mouse, Black, All MS Windows Compatible
2	рс	MOUSE:	3-buttons + 1 wheel for scroll
	•		2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters
			Nylon - Thickly padded laptop with up to $15{\sim}17$ inch display
2	рс	LAPTOP BAG:	Type: Backpack
			Compartment with 10" tablet sleeve /
			slip pocket / pen loops / zippered compartment / Air Mesh
			Technology Design for comfort and Breathability
2	рс	PORTABLE	Portable Green Screen 142cm double-sided with case
		SCREEN:	Hook-n-loop straps allow to secure connection to the chair
			Green background made of Polyester Fabric, Flexible metals shape,
			collapsible
2	рс	OPERATING	Windows 10-English x64Edition with DVD Installation DISK and
		SYSTEM:	Serial Key sticker, OEM License
2	рс	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English, x64Edition with DVD
			Installation DISK and Serial Key sticker, OEM License

REFERENCE NO:D.5CATEGORY:HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	DESCRIPTION
1	Laptop	MAC BOOK PRO

TECHNICAL SPECIFICATION:

CHIP:	Apple M1 Chip, 8-Core CPU		
DISPLAY:	14"~17", LED-backlit display with IPS Technology 2560-1600 resolution		
BATTERY:	Up to 15~18 hours' wireless web		
	Lithium-polymer battery		
MEMORY:	8GB expandable to 16GB		
STORAGE:	512 GB SSD configurable to 1TB SSD		
KEYBOARD:	Backlit Magic Keyboard (U.S.) 101 Keys		
TOUCH ID:	Touch ID Sensor		
	Wi-Fi 802.11ax Wi-Fi 6		
WIRELESS:	IEEE 802.11 a/b/g/n/ac compatible		
	Bluetooth 5.0 Wireless Technology		
CAMERA:	720p-1020p FaceTime HD Camera		
VIDEO SUPPORT:	VGA, HDMI, DVI port		
AUDIO:	Stereo Speaker, Three-mic array, 3.5mm headphone jack		
INPUT VOLTAGE:	100-240ACV		
CERTIFICATION:	Mac Environmental Compliance		

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
			USB-wireless mouse, Black, All MS Windows, Mac OS Compatible
1	рс	MOUSE:	3-buttons + 1 wheel for scroll
			2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters
			Nylon - Thickly padded laptop with up to 14~17 inch display
1	рс	LAPTOP	Compartment with 10" tablet sleeve /
	1	BACKPACK:	slip pocket / pen loops / zippered compartment / Air Mesh
			Technology Design for comfort and Breathability
1	рс	PORTABLE Portable Green Screen 142cm double-sided with case	
		SCREEN:	Hook-n-loop straps allow to secure connection to the chair
			Green background made of Polyester Fabric, Flexible metals shape,
			collapsible
1	рс	OPERATING	Latest Update for Mac IOS License with Installation Disk and
		SYSTEM:	Registration Papers.
1	рс	MS OFFICE:	Microsoft Office 2016 Pro Plus US-English for Mac with DVD
			Installation
			DISK and Registration Papers.

REFERENCE NO:D.6CATEGORY:D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
1	Multi-Function Printer	INDUSTRIAL MFP PRINTER

TECHNICAL SPECIFICATION:

TECHNICAL SPECIFICA		
GENERAL TYPE:	MULTI-FUNCTIONAL (MFP) PRINTER	
PROCESSOR:	Intel, Coretex, AMD	
RAM:	2~8GB	
STORAGE:	10~50GB	
FUNCTION:	Print, Scan, Copy	
SCAN	Scan-to-e-mail (SMTP)	
FUNTIONALITY:	Scan-to-FTP (FTP over SSL)	
	Scan-to-SMB, Scan to USB Host	
	TWAIN scan (USB, network), WSD (WIA) scan (USB, network)	
SCAN RESOLUTION:	600, 400, 300, 200 dpi (256 grey scales per color)	
SCAN FILE TYPE:	TIFF, PDF, PDF/A, high compression PDF, encrypted PDF, JPEG, XPS	
PAPER SIZE:	A4, A5, A6, B5, B6, Letter, Legal,	
	Custom (105 x 148 mm – 216 x 356 mm)	
PAPER FEEDER:	Yes	
DUPLEX:	Double-sided printing: 60 – 120 g/m ² ; A4, A5, B5, Letter, Legal	
COMPATIBILITY:	All Microsoft Windows Operating System	
SPEED:	Up to 26~30 pages per minute in color and black and white	
DISPLAY CONTROL	Touchscreen, color display	
PANEL:	7~15 inch screen	
RESOLUTION:	1,200 x 1,200 dpi print at reduced speed, multibit technology for print quality	
	of up to 9,600 x 600 dpi (print), 600 x 600 dpi, 256 greyscales per color	
	(scan/copy)	
DIMENSION:	400 x 500 x 200 mm	
INTERFACE:	USB 2.0 (Hi-Speed)	
	USB Host Inter-face	
	Gigabit Ethernet 10BaseT/100BaseTX/1000BaseT)	
	Wireless LAN, Slot for optional SD/SDHC-Card	
CARTRIDGE SUPPLY	Toner	
TYPE:		
PAPER CAPACITY	400~600 sheets	
PER TRAY:		
CERTIFICATION:	BLI Certificate	
	Energy Star Certificate	
	ISO/IEC 24734	
	ISO/IEC 19798	

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
20	рс	TONER Black	Equivalent to printer model
20	рс	TONER Magenta	Equivalent to printer model
20	рс	TONER Cyan	Equivalent to printer model
20	рс	TONER Yellow	Equivalent to printer model
			USB-wireless mouse, Black, All MS Windows Compatible
5	pc	MOUSE:	3-buttons + 1 wheel for scroll
			2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters

REFERENCE NO:D.7CATEGORY:HARDWARE - D. Workstation and Laptop Computer with accessories

QUANTITY	ITEM	DESCRIPTION
2	Portable Projector	PORTABLE HD PROJECTOR

TECHNICAL SPECIFICATION:

I ECHNICAL JI ECHICAI			
FORM TYPE:	Desktop, Table-top		
COLOR:	White, Black		
DISPLAY TYPE:	DLP – with Remote Control for operation		
SCREEN SIZE:	60"- 140"		
ASPECT RATIO:	16:9/Original		
	4:3 Vertical Zoom		
BRIGHTNESS:	Up to 15000 ANSI Lumens		
CONTRAST RATIO:	150,000 : 1		
NOISE:	25/28/30dB(A)		
TRUMOTION:	Yes		
WEB OS:	Yes		
NATIVE RESOLUTION:	4K UHD (3840 x 2160)		
PROJECTION IMAGE:	100" @11.2ft (1.25x) ~ 8.9ft (1.0x)		
ZOOM:	x 1.25		
LIGHT SOURCE:	4Ch LED		
LAMP LIFE:	Up to 30,000 hrs		
HDR	HDR10		
COMPATIBILITY:	All Windows Operating System		
INPUT VOLTAGE:	100-240ACV		
CERTIFICATION:	TCO Certified		
	ISO-21118-2012		

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
			USB-wireless mouse, Black, All MS Windows Compatible
5	рс	MOUSE	3-buttons + 1 wheel for scroll
			2.4Ghz wireless with nano receiver
			Strong connection for up to 10 meters
5	pc	KEYBOARD	Black – US English QWERTY Type,
			Built-in large touchpad for mouse
			Height: 139.9 mm, Width: 354.3 mm, Depth: 23.5 mm
			Weight: 390 g (with batteries)
			Unifying protocol (2.4Ghz) Wireless range >10m
			Support: Computers, Phones, tablets
			USB – Wireless Connection
			Nylon Materials - Black
1	рс	PROJECTOR BAG	Thickly padded projector bag with compartment and slip pocket
		,	Airmesh Technology Design,
			comfort and breathability
5	pax	TRAINING	Certificate of Reservation to ICT Training
			5 pax inclusion of meal and accommodation (indoor/outdoor)

REFERENCE NO:D.8CATEGORY:HARDWARE - D. Workstation and Laptop Computers with accessories

QUANTITY	ITEM	CLASSIFICATION
lot	Hardware	DSLR CAMERA WITH KIT LENS

TECHNICAL SPECIFICATION:

CAMERA FORMAT:	Full-Frame (1x Crop Factor)
PIXELS:	Actual: 31.7 Megapixel
RESOLUTION:	6720 x 4480
ASPECT RATIO:	1:1, 3:2, 4:3, 16:9
SENSOR TYPE:	CMOS
SENSOR SIZE:	36 x 24 mm
IMAGE FILE FORMAT:	JPEG, Raw
ISO SENSITIVITY:	Auto, 100 to 32000 (Extended: 50 to 102400
SHUTTER SPEED:	1/8000 to 30 Seconds
WHITE BALANCE:	Auto, Cloudy, Color Temperature, Custom, Daylight, Flash,
	Fluorescent (White), Shade, Tungsten
CONTINOUS SHOOTING:	(Raw) / Unlimited Frames
SELF-TIMER:	2/10-Second Delay
RESOLUTION:	1,620,000 Dot
DISPLAY TYPE:	Fixed Touchscreen LCD
MAX SYNC SPEED:	1/200 Second
MEDIA/MEMORY CARD SLOT:	Slot 1: SD/SDHC/SDXC (UHS-I)
	Slot 2: CompactFlash (UDMA 7)
WIRELESS:	Wi-Fi
GPS:	Yes
BATTERY:	1 x LP-E6N Rechargeable Lithium-Ion, 7.2 VDC, 1865 mAh
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Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
1	рс	KIT LENS	24-70mm f4 Lens
			Focal Length: 24 to 105mm
			Maximum Aperture: f/4
			Minimum Aperture: f/22
			Angle of View: 84° to 23° 20'
			Maximum Magnification: 0.23x
			Minimum Focus Distance: 1.48' / 45 cm
			Optical Design: 17 Elements in 12 Groups
			Diaphragm Blades: 10, Rounded
			Focus Type: Autofocus
			Image Stabilization: Yes
			Filter Size: 77 mm (Front)
1	рс	Bag	Polyester Materials - Black
			Thickly padded DSLR bag with compartment and slip pocket
			Airmesh Technology Design, with shoulder hand carry sleeve
			comfort and breathability
2	pcs	Battery	LP-E6N Rechargeable Lithium-Ion, 7.2 VDC, 1865 mAh
1	unit	Camera Gimbal	Gimbal
			Number of Axes 3-Axis (Pitch, Roll, Yaw)
			Rotation Range Yaw (Pan): 360°
			Pitch (Tilt): -240 to 95°
			Roll: -112 to 214°
			Load Capacity 6.6 lb / 3 kg
			Connectivity
			Ports 3 x USB Type-C

			Wireless Frequenc	у	2.4 GHz (2.4 - 2.483)
			Wireless Protocol	-	Bluetooth 5.0
			Battery		
			Battery Type 2	x 1865	50
			Capacity (mAh) 34	400 m/	Ah
			Capacity (Wh) 24	4.48 W	h
			Battery Runtime 14	4 Hour	S
			Environmental		
			Operating Tempera	ature	-4 to 113°F / -20 to 45°C
			General		
			Materials Al	luminu	ım
			Mounting 1	x 1/4"	-20 Female
			1 x Cold Shoe Mour	nt	
			2 x NATO Rail		
			4 x M4 Female		
			Dimensions 15	5.7 x 7.	3 x 6.9" / 40 x 18.5 x 17.5 cm
			10.2 x 8.3 x 3" / 26	x 21 x	7.5 cm (Folded)
			Weight 2.681 lb /	1.216	kg (without Battery)
			2.906 lb / 1.318 kg	(with	Camera Plate)
5	pax	TRAINING	Certificate of Reser	vation	to Training
			Inclusion of meal a	nd acc	omodation

REFERENCE NO:D.9CATEGORY:HARDWARE - D. Workstation and Laptop Computers with Accessories

QUANTITY	ITEM	CLASSIFICATION
lot	Communication	VIDEO CONFERENCING DEVICE

ECHNICAL SPECIFIC. USER INTERFACE:	Gesture-based, multi-touch-capable capacitive touch screen
USER INTERFACE.	5-inch color LCD (720x1280 pixel) 9:16 aspect ratio
	On-screen virtual keyboard, USB type A, USB Micro-B, Bluetooth 5.0
	LED multi-colored indicator for mute, power on, standby mode
	User Interface English International US
	User interface English international US
CAMERA:	Pan/tilt/zoom camera
	VGA, DVI, US Supported resolutions and connections
	Output Resolution HD 1080p (1920x1080) 30~40fps
	18X total zoom
EXPANSION	Full-duplex
SPEAKERPHONE:	Beamforming technology with four omni-directional mics
	LED Indicator to provide visual alerts when on a call
	Mute button
AUDIO:	360-degree microphone pick up
	Loudspeaker Frequency 100-22,000Hz, Volume 92dB
	60-70meter/20-30ft microphone pickup range
CODEC:	Supported codec but not limited to
	G.711, G.719, G.729AB, iLBC (3.33Kbs and 15.2Kbps), Opus (8Kbps-24Kbps)
	Duplex conversations, acoustic echo cancellation, background noise Suppression-Type 1
	compliant IEEE 1329 full duplex. A.I. Noise Block
	Voice Activity Detection, Comfort noise generation, DTMF tone generation
NETWORK:	Open SIP, Skype for Business, Microsoft teams, Zoom Meeting
	IETF SIP (RFC 3261 and companion RFCs) SDP
	Two-Port gigabit Ethernet Switch 10/100/1000Base-TX across LAN in and LAN out,
	support IEEE 802.3af PSE
	Wi-Fi network connectivity (802.11x)
MANAGEMENT:	Time and date synchronization using SNTP
	Manual or dynamic host configuration protocol (DHCP),
	Web-based remote management and configuration setup
	FTP/TFTP/HTTP/HTTPS server-based central provisioning
SECURITY:	802.x authentication and EAPOL, Media encryption via SRTP
	Transport layer security (TLS) v1.2, Encrypted configuration files
	Digest authentication, Password login, Support password for boot server address,
	Support for signed software executables
	Wi-Fi encryption: WEP, WPA-Personal, WPA2-Personal, WPA2-Enterprise with 802.1x
	(EAP-TLS, PEAP-MSCHAPv2), QoS IEEE 802.1x VLAN tagging layer 3 TOS and DSCP,
	WMM (Wi-Fi multimedia)
POWER:	LAN IN: Built-in auto-sending IEEE 802.3at, PoE Device (Class4) (requires full Class 4)
	power input on LAN IN
	LAN OUT: Built-in auto-sensing IEEE 802.3af power sourcing equipment.
CERTIFICATION:	USB 2.0, 3.0 Compliant
	UVC-compliant video and audio for broad application

Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
1	рс	MOUSE:	USB-wireless mouse, Black, All MS Windows Compatible 3-buttons + 1 wheel for scroll 2.4Ghz wireless with nano receiver Strong connection for up to 10 meters

REFERENCE NO:D.10CATEGORY:HARDWARE - D. Workstation and Laptop Computer with accessories

QUANTITY	ITEM	CLASSIFICATION
10	Communication	ANDROID TABLET

TECHNICAL SPECIFICATION:

TECHNICAL SPECIFICAT			
DISPLAY SCREEN:	10~10.5" inch		
CPU SPEED:	Octa Core 2.0~3.0 Hz		
RAM:	8GB~16GB		
ROM:	64~128 GB		
CONNECTIVITY:	 Wi-Fi 802.11 a / b / g / n / ac 2.4G+5GHz, VHT80 Bluetooth VersionBluetooth v5.0 Bluetooth ProfilesA2DP, AVRCP, DI, HFP, HID, HOGP, HSP, MAP, OPP, PAN, PBAP Location TechnologyGPS, Glonass, Beidou, Galileo 		
	PC Sync.Smart Switch (PC version)		
NETWORK BEARER:	 2G GSMGSM850, GSM900, DCS1800, PCS1900 4G FDD LTEB1 (2100), B2 (1900), B3 (1800), B4 (AWS), B5 (850), B7 (2600), B8 (900), B12 (700), B17 (700), B20 (800), B28 (700), B66 (AWS-3) 3G UMTSB1 (2100), B2 (1900), B4 (AWS), B5 (850), B8 (900) 4G TDD LTEB38 (2600), B40 (2300) 		
INTERNAL STORAGE:	64GB		
DISPLAY RESOLUTION:	1080 x 1920p		
CAMERA RESOLUTION:	8-16MP AF + 5-8MP (Front)		
EXTERNAL MEMORY SUPPORT:	1TB Expandable Memory		
THICKNESS:	6~8mm		
WEIGHT:	400~500g		
DURABILITY:	Metal Body		
COLOR OPTION:	Dark Gray, Silver, Gold		
AUDIO FORMAT:	MP4, M4V, 3GP, 3G2, WMV, ASF, AVI, FLV, MKV, WEBM		
VIDEO FORMAT:	MP3, M4A, 3GA, AAC, OGG, OGA, WAV, WMA, AMR, AWB, FLAC, MID, MIDI, XMF, MXMF, IMY, RTTTL, RTX, OTA		
VIDEO PLAYING RESOLUTION:	1920 x 1080 @ 30~60fps		
SENSORS:	Accelerometer, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor		
S PEN SUPPORT:	Yes, S-PEN must be included		
SPEAKER:	Dual Quad Speaker – Dolby Atmos		
INPUT VOLTAGE:	220 ACV		
BATTERY CAPACITY:	7,040mAh		
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Warranty: standard warranty, customer replaceable unit, on-site support and services

QTY	UNIT	ITEM	DESCRIPTION
2	рс	Tablet	Foldable Adjustable Stainless Tablet wall mounted stand.
		Holder	Functions: Perfect angle of view and enhance the audio/video experience
			Main Material: Aluminium Alloy , Control mode: Rotatable
			Sturdy & Rubber Protected: Designed on a low center of gravity makes it
			stable, and rubber cushions of hooks, bottom protect the phone from
			scratches and sliding
8	рс	Tablet	Genuine Leather Case (Brown and Black Color of choice)
		Case	- side pocket padfolio organizer

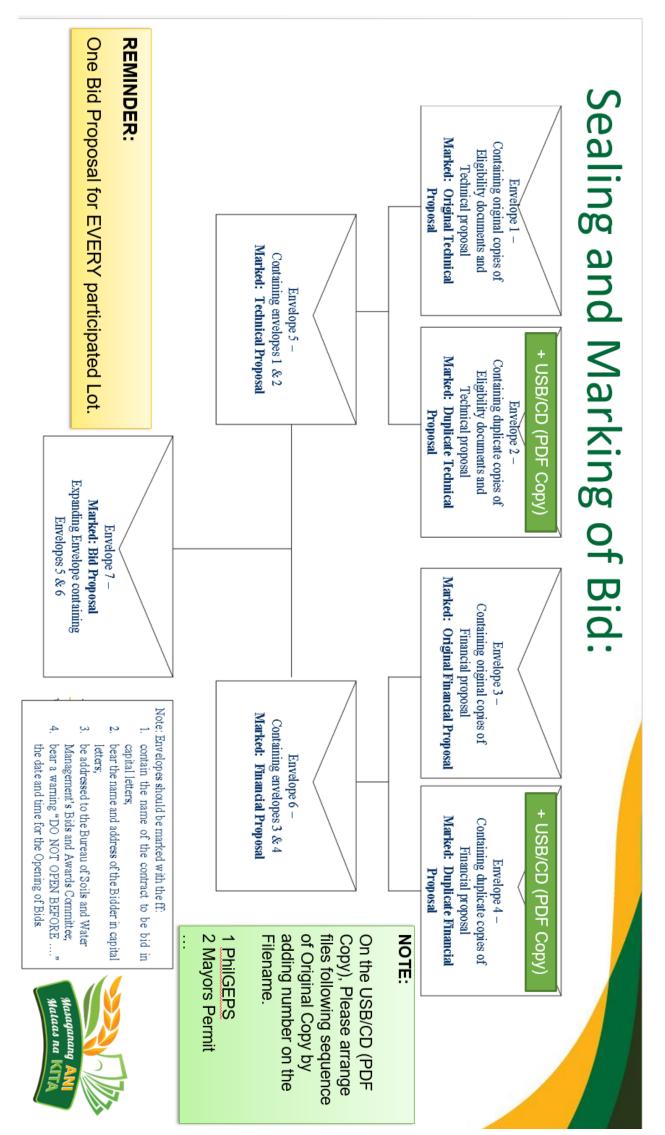
			- S Pen Holder
10	рс	MicroSD	128GB
10	pc	Headset	Earbuds Headphones with Microphone and Volume Control
			Tablet compatible

Name and Signature of Authorized Representative

Company Name

Date Signed

ANNEX B



Statement of Single Largest Completed Contract similar to the contract to be bid

Business Name	:	
Business Address	:	
Business Contact Nos	s and Email Address:	

	a. Owner's Name b. Address c. Telephone Nos.	Definition/ Description of the similar contract	Bidder's Role		a. Contract Date b. Contract Period	a. Date Awarded		
Name of Contract/Projects			Description	%	c. Contract Amount	b. Date Awardedb. Date Startedc. Date of Completion		
Government / Private								

Note: The value is adjusted to the current prices using the Philippine Statistics Authority consumer price indices, when necessary;

Note: This statement shall be supported with end user's acceptance or official receipt(s) or sales invoice issued for the contract

Signature over Printed Name [title or other appropriate designation] [date of signing]

Statement of All Ongoing Government & Private Construction Contracts including contracts awarded but not yet started

Name of Contract/Projects	a. Owner's Name b. Address c. Telephone Nos.	Nature of Work	Bidder's Role		a. Contract Date b. Contract Period		% of Accomplishment		Value of Outstanding Contracts	Date of Delivery, if applicable
			Description	%		. Contract Amount	Planned	Actual		
Government / Private										

Note: This statement shall be supported with Notice of Award.

Signature over Printed Name [title or other appropriate designation] [date of signing]

Instructions:

- i. State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project being bidded.
- ii. If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.
- iii. Amount or value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started, coinciding with the contract to be bid. The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC).