



BID BULLETIN No.1		31 October 2024 (Thursday)
BIDDING NO.: IB24-414429-03	“ONE (1) LOT SUPPLY, INSTALLATION, CONFIGURATION, AND TESTING, INCLUDING ALL NECESSARY ACCESSORIES TO COMPLETE THE REPLACEMENT OF UNMANAGED NETWORK SWITCHES TO BRAND NEW MANAGED NETWORK CORE, DISTRIBUTION, AND ACCESS SWITCHES FOR DAP FACILITIES IN PASIG CITY”	
APPROVED BUDGET CEILING (ABC): ₱10,000,000.⁰⁰		
DATE OF PRE-BID CONFERENCE		
22 October 2024 (Tuesday); 10:00 AM		

Relative to the conducted Pre-Bid Conference via Hybrid for the above-stated Project last 22 October 2024 (Tuesday), the following clarifications from prospective bidders are being posted for the information of all concerned, as approved by the BAC & TWG:

References based on the OBD / Pre-Bid Conference	New description / Clarification
Title of the Project: “ONE (1) LOT SUPPLY, INSTALLATION, CONFIGURATION, AND TESTING, INCLUDING ALL NECESSARY ACCESSORIES TO COMPLETE THE REPLACEMENT OF UNMANAGED NETWORK SWITCHES TO BRAND NEW MANAGED NETWORK CORE, DISTRIBUTION, AND CORE SWITCHES FOR DAP FACILITIES IN PASIG CITY”	“ONE (1) LOT SUPPLY, INSTALLATION, CONFIGURATION, AND TESTING, INCLUDING ALL NECESSARY ACCESSORIES TO COMPLETE THE REPLACEMENT OF UNMANAGED NETWORK SWITCHES TO BRAND NEW MANAGED NETWORK CORE, DISTRIBUTION, AND ACCESS SWITCHES FOR DAP FACILITIES IN PASIG CITY”
Section VII – Technical Specifications items no. “2.1 Core Switch-Copper” and 2.2 “One (1) Unit Distribution Switch – Fiber”	40GbE QSFP+ or 100GbE QSFP28 uplink ports Note: Bidder can offer a higher or equivalent to compatible QSFP modules
Section VII – Technical Specifications item no. “2.1 Core Switch-Copper”	Core Switch – Fiber
Section VII – Technical Specifications item no. 2.2 “One (1) Unit Distribution Switch – Fiber” Four 400W Exhaust Flow: 4 Units PSU Power Cord: Three (3) Two 4-port	2 Units PSU Power Cord: Two (2) Retained
Section VII – Technical Specifications , item no. “2.1 Core Switch-Copper” “Twelve switches into a single logical switch, up to 2.4 Tbps Stacking Cables	Retained Required
Copy of Network Diagram	Will be given to Winning Bidder



References based on the OBD / Pre-Bid Conference	New description / Clarification
Section VII – Technical Specifications item no. 2.2 “One (1) Unit Distribution Switch – Fiber” Premium Software License	Software License for Premium features or equivalent.
Section VII – Technical Specifications items no. “2.1 Core Switch-Copper” and 2.2 “One (1) Unit Distribution Switch – Fiber” Layer 3	Retained
Section VII – Technical Specifications items no. 2.3. POE for IDFs – ACCESS SWITCH	License is required
Section VII – Technical Specifications item no. 2.4. POE FOR IDFs - ACCESS SWITCH	The winning bidder will propose the PoE power budget in their proposed network design based on the result of the Network Audit requirement of the project.
Section VII – Technical Specifications item no. 3	Bidder may propose a hardware-based or cloud-based solution for centralized monitoring.
Form 2 – Price Schedule	See Annex A – “Revised Form 2 - Price Schedule”
Form 9 – Technical Specifications Compliance	See Annex B – “Revised Form 9 - Technical Specifications Compliance”
	CWDP and CWNA Certification - Network engineering configurations, activations and connectivity. Finalization of Network Structures, submission of as-built design in 20x30 digiblue print 4-sets signed and sealed documentation, test results, technical specifications and manuals must be signed by a Professional Electronics and Communications Engineer (PECE).

Note: The Specifications are the minimum standards. The Bidders may submit higher or better specifications.

Reminder to Bidders:

1. The Prospective Bidders may obtain further information from DAP and inspect the Bidding Documents at the DAP Pasig address or through email or contact details provided below during 9:00AM to 4:30PM (except holidays and weekends).
2. A complete printed set or electronic copy of Bidding Documents may be acquired by interested Bidders until **15 November 2024** from 9:00AM to 4:30PM, (except holidays



and weekends), from the given address and website below, upon payment of the applicable fee for the Bidding Documents, pursuant to the latest guidelines issued by the GPPB, in the amount of **TEN THOUSAND PESOS (P10,000.00)**. The DAP shall allow the bidder to present its proof of payment for the fees in person, or through electronic means.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (www.philgeps.gov.ph) and the website of the DAP (www.dap.edu.ph). However, **only bidders who have paid the non-refundable applicable fee not later than the deadline for submission of bids, shall qualify to participate and submit the bids.**

3. Interested bidders must make payment to:

Account Name:	Development Academy of the Philippines
Account Number:	0671-0105-40
Bank:	Landbank of the Philippines
Branch of Account:	Pasig Capitol Branch

A copy of proof of payment must be emailed to DAP's Finance Department at: cashtreasury@dap.edu.ph and copy furnish dapbacsec@dap.edu.ph for the issuance of Service Invoice (SI) and the BAC Secretariat will provide assistance to the On-line Bidder for the creation of "**bidms account**" and dedicated site in the bidms.dap.edu.ph.

4. In compliance with GPPB Resolutions Nos. 09-2020 and 12-2020, all Electronic-Bids must be duly received by the Bids and Awards Committee (BAC) Secretariat, through the designated bidms.dap.edu.ph secured account on or before **19 November 2024** and not later than **9:30AM**. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause14. **LATE BIDS SHALL NOT BE ACCEPTED.**
5. Bid opening shall be on **19 November 2024, 10:00AM** via Google Meet Platform. Electronic-bids will be opened in the presence of the bidders' authorized representative/s who are authorized to attend the proceedings, as evidenced by the **Bidders' Notarized Letter of Authorization (LOA)**. The **Authorized Representative** is a person who has been authorized by the company's owner, board, or management, and via a notarized document, to represent the company, to ask questions, answer questions, and make decisions on behalf of the company during the bid opening.
6. The **DAP** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time in accordance with the provisions of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.
7. For further information, please refer to:

RODEL DV. CASTILLO
Officer-in-Charge, BAC Secretariat Division
Development Academy of the Philippines



1st Floor DAP Bldg., San Miguel Avenue, Pasig City 1600

Telephone No. : (632) 8631-0921 loc. 133

BAC Secretariat email : dapbacsec@dap.edu.ph

Website address : <https://www.dap.edu.ph>

8. You may visit the following websites:

For downloading of Official Bidding Documents:

<https://www.dap.edu.ph/invitation-to-bid/>

For online bid submission: <http://bidms.dap.edu.ph/page/>

For the guidance and information of all concerned.

ALAN S. CAJES

CHAIRPERSON, BIDS & AWARDS COMMITTEE 2 (SO No.2024-038)

>>>NOTHING FOLLOWS<<<

**Annex "A" – Revised Form 2 - Price Schedule Page 1 of 27***Bidder's LETTERHEAD***FORM 2: PRICE SCHEDULE**

(AS PER GPPB RESOLUTION NO. 16-2020)

INSTRUCTIONS to BIDDERS:

01. THIS FORM SHOULD BE ACCOMPLISHED USING THE BIDDER'S LETTERHEAD, SIGNED COPY SHOULD BE SUBMITTED AS PART OF THE FINANCIAL COMPONENT MARKED AS "FC02";
02. THE SIGNED COPY OF THIS DOCUMENT (IN PDF OR JPEG FORMAT) **MUST BE PART OF THE ELECTRONIC FILES THAT SHOULD BE CONTAINED IN THE SUBMITTED ELECTRONIC BID;**
03. DO NOT LEAVE BLANK CELLS. KINDLY PUT **N/A** IF "NOT APPLICABLE";
04. KINDLY USE ADDITIONAL SHEETS IF NECESSARY; AND
05. THE FILENAME STRUCTURE SHOULD BE "**FC02_XXX=PRICE_SCHEDULE=<BIDDERNAME>**".

FOR GOODS OFFERED FROM WITHIN THE PHILIPPINES

Name of Bidder: _____

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Invitation to Bid Number: **IB24-414429-03**

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity/ unit	Unit price EXW per item	Transportation and Insurance and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)	Total Price delivered Final Destination (col 9) x (col 4)
1.0	Audit the DAP existing network design and submit findings to the DAP ICTD Submit the proposed network architecture, design and engineering plan, sign and sealed by Professional Electronics and Communication Engineer (PECE) in 20x30-4sets, A3-5sets and CAD file		1/lot						
2.1	Supply, installation, testing, configuration, and testing of twenty-three (23) network switches, one (1) core switch, one (1), distribution switch, twenty-one (21) access switches		1/lot						



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2.1	CORE SWITCH – COPPER: 24×10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4×1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1,020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access	1/unit								
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	Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables							
2.2	ONE (1) UNIT DISTRIBUTION SWITCH - FIBER: 24x1/10Gbps SFP/SFP+ ports, 40GbE QSFP+ uplink-ports, can add a modular slot 4x1/10 GbE SFP/SFP+ uplink-ports, 40GbE QSFP+ or 100GbE QSFP28 uplink ports, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user to perform software upgrades to the switches in the stack without service interruption, allows the user to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to		1/unit					



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	operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables							
2.3	TWELVE (12) UNITS POE FOR IDFs - ACCESS SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking		12/unit s					



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	PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables							
2.4	SEVEN (7) UNITS POE FOR IDF - ACCESS SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 180 Gbps of switching capacity and 134 Mpps forwarding capacity , perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or		7/units					



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<p>cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault</p>								
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	Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables							
2.5	ONE (1) UNIT POE FOR MDF - ACCESS SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option,		1/unit					



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enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch								
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	Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables							
2.6	ONE (1) UNIT SERVER FARM SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 180 Gbps of switching capacity and 134 Mpps forwarding capacity , perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network	1/unit						



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monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology								
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	Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables								
2.7	FIFTY (50) UNITS TRANSCEIVER: 1000Base-SX SFP optic, MMF, LC connector, Optical Monitoring Capable		50/unit s						
3	Supply of Network switches complete with compatible accessories such as Small Form-factor Pluggable (SFP) modules, support and license, fans, power cords, centralized monitoring		1/lot						
4	Supply, installation, termination, and testing with test results, of CAT6 cables or fiber optic cables as per project specifications. Optical Time Domain Reflectometer for fiber optic cables and Fluke tester for copper cables.		1/lot						
5	Install patch panels, racks and cabinets as required;		1/lot						
6	Network engineering configurations, activations and connectivity. Finalization of Network Structures, submission of as-built design in 20x30 digiblu		1/lot						



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	print 4-sets signed and sealed documentations, test results, technical specification and manuals								
7	<p>Provision of Technical Training, Overview and knowledge transfer to ten(10) DAP Officer / Staff</p> <p>Provide one(1) year warranty support with monthly system and connectivity checkup and monitoring with 24/7 on-call and on-site support</p> <p>Certificate of Warranty to DAP (End User) on all supplied equipment and cabling for one (1) year or as per manufacturer's standard and post-installation support for one (1) year.</p>		1/lot						
TOTAL AMOUNT:									

Yours sincerely,

SIGNATURE OF THE AUTHORIZED REPRESENTATIVE	
NAME OF THE AUTHORIZED REPRESENTATIVE	
POSITION TITLE OF SIGNATORY:	
NAME OF FIRM\BIDDER:	
POSTAL ADDRESS:	
TELEPHONE NUMBER:	
EMAIL ADDRESS:	

**Annex "A" – Revised Form 2 - Price Schedule Page 14 of 27****FOR GOODS OFFERED FROM ABROAD**

Name of Bidder: _____

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Invitation to Bid Number: **IB24-414429-03**

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity/ unit	Unit price EXW per item	Transportation and Insurance and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit (col 5+6+7+8)
1.0	Audit the DAP existing network design and submit findings to the DAP ICTD Submit the proposed network architecture, design and engineering plan, sign and sealed by Professional Electronics and Communication Engineer (PECE) in 20x30-4sets, A3-5sets and CAD file		1/lot					
2.1	Supply, installation, testing, configuration, and testing of twenty-three (23) network switches, one (1) core switch, one (1), distribution switch, twenty-one (21) access switches		1/lot					
2.1	CORE SWITCH – COPPER: 24×10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4×1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1,020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user		1/unit					



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<p>to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support</p>							
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	for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables							
2.2	ONE (1) UNIT DISTRIBUTION SWITCH - FIBER: 24×1/10Gbps SPF/SFP+ ports, 40GbE QSFP+ uplink-ports, can add a modular slot 4×1/10 GbE SFP/SFP+ uplink-ports, 40GbE QSFP+ or 100GbE QSFP28 uplink ports, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user to perform software upgrades to the switches in the stack without service interruption, allows the user to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy	1/unit						



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	(SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables							
2.3	TWELVE (12) UNITS POE FOR IDFs - ACCESS SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance		12/units					



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stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based,							
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	ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables						
2.4	SEVEN (7) UNITS POE FOR IDF - ACCESS SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 180 Gbps of switching capacity and 134 Mpps forwarding capacity , perform software upgrades to the switches in the stack without service		7/units				

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<p>interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a “silent mode” configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC</p>							
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	Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables							
2.5	ONE (1) UNIT POE FOR MDF - ACCESS SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the		1/unit					



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stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault							
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<p>Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables</p>							
<p>2.6 ONE (1) UNIT SERVER FARM SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 180 Gbps of</p>		<p>1/unit</p>					



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switching capacity and 134 Mpps forwarding capacity , perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping							
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	(v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables						
2.7	FIFTY (50) UNITS TRANSCEIVER: 1000Base-SX SFP optic, MMF, LC connector, Optical Monitoring Capable		50/units				
3	Supply of Network switches complete with compatible accessories		1/lot				

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	such as Small Form-factor Pluggable (SFP) modules, support and license, fans, power cords, centralized monitoring							
4	Supply, installation, termination, and testing with test results, of CAT6 cables or fiber optic cables as per project specifications. Optical Time Domain Reflectometer for fiber optic cables and Fluke tester for copper cables.		1/lot					
5	Install patch panels, racks and cabinets as required;		1/lot					
6	Network engineering configurations, activations and connectivity. Finalization of Network Structures, submission of as-built design in 20x30 digiblu print 4-sets signed and sealed documentations, test results, technical specification and manuals		1/lot					
7	Provision of Technical Training, Overview and knowledge transfer to ten(10) DAP Officer / Staff Provide one(1) year warranty support with monthly system and connectivity checkup and monitoring with 24/7 on-call and on-site support		1/lot					



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Certificate of Warranty to DAP (End User) on all supplied equipment and cabling for one (1) year or as per manufacturer's standard and post-installation support for one (1) year.								

TOTAL AMOUNT:

Yours sincerely,

SIGNATURE OF THE AUTHORIZED REPRESENTATIVE

NAME OF THE AUTHORIZED REPRESENTATIVE

POSITION TITLE OF SIGNATORY:

NAME OF FIRM\BIDDER:

POSTAL ADDRESS:

TELEPHONE NUMBER:

EMAIL ADDRESS:

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Bidder's LETTERHEAD

FORM 9: TECHNICAL SPECIFICATIONS COMPLIANCE

INSTRUCTIONS to BIDDERS:

- 01.** THIS FORM SHOULD BE ACCOMPLISHED USING THE BIDDER'S LETTERHEAD, SIGNED COPY SHOULD BE SUBMITTED AS PART OF THE TECHNICAL COMPONENT MARKED AS "TC05";
- 02.** THE SIGNED COPY OF THIS DOCUMENT (IN PDF OR JPEG FORMAT) MUST BE PART OF THE ELECTRONIC FILES THAT SHOULD BE CONTAINED IN THE SUBMITTED ELECTRONIC BID; AND
- 03.** THE FILENAME STRUCTURE SHOULD BE "TC05_XXX=CONFORMITY_WITH_TECH-SPECS=<BIDDERNAME>".

CONFORMITY WITH THE TECHNICAL SPECIFICATIONS

Item	Specification	Qty	Unit	Statement of Compliance
1	Audit the DAP existing network design and submit findings to the DAP ICTD Submit the proposed network architecture, design and engineering plan, sign and sealed by Professional Electronics and Communication Engineer (PECE) in 20x30-4sets, A3-5sets and CAD file	1	lot	
2	Supply, installation, testing, configuration, and testing of twenty-three (23) network switches, one (1) core switch, one (1), distribution switch, twenty-one (21) access switches Network Switches for DAP Pasig shall be inclusive of, but not limited to:	1	lot	
2.1	CORE SWITCH – COPPER: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1,020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent	1	unit	

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	mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables			
2.2	ONE (1) UNIT DISTRIBUTION SWITCH - FIBER: 24x1/10Gbps SFP/SFP+ ports, 40GbE QSFP+ uplink-ports, can add a modular slot 4x1/10 GbE SFP/SFP+ uplink-ports, 40GbE QSFP+ or 100GbE QSFP28 uplink ports, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 1020 Gbps of switching capacity and 759 Mpps forwarding capacity, allows the user to perform software upgrades to the switches in the stack without service interruption, allows the user to perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 2.4 Tbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, advance L3 ready for advance L3 routing protocols, can be upgraded using L3 advance license, support for third-party transceivers, 1G,10G, 40G and 100G transceivers and stacking cables	1	unit	
2.3	TWELVE (12) UNITS POE FOR IDF's - ACCESS	12	units	



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	<p>SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables</p>			
2.4	<p>SEVEN (7) UNITS POE FOR IDF - ACCESS SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through</p>	7	units	

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	<p>CLI, GUI, WLAN controller or cloud, 180 Gbps of switching capacity and 134 Mpps forwarding capacity . perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables</p>			
2.5	<p>ONE (1) UNIT POE FOR MDF - ACCESS SWITCH: 24x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, 132 Gbps of switching capacity and 98 Mpps forwarding capacity, allows upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking</p>	1	unit	

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	bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables			
2.6	ONE (1) UNIT SERVER FARM SWITCH: 48x10/100/1000Mbps GbE PoE/PoE+ ports, 2x1 GbE RJ45 uplink ports, 4x1GbE SFP uplink ports, switch's uplink ports are upgradeable into 2x10GbE SFP+ ports or 4x10GbE SFP+ ports via license, able to be managed or configured through CLI, GUI, WLAN controller or cloud, 180 Gbps of switching capacity and 134 Mpps forwarding capacity , perform software upgrades to the switches in the stack without service interruption, able to stack up to twelve switches into a single logical switch, up to 480 Gbps of aggregated stacking bandwidth, capable of long distance stacking up to 10 km using standard optics or cables, does not need hardware module to have stacking feature and is capable of Hot	1	unit	

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	insertion/removal of stack members, offer a "silent mode" configuration option, enabling these switches to operate with the fan disabled for silent operation, sFlow-based network monitoring, Command Line Interface (CLI), Secure Shell (SSHv2), Secure Copy (SCP), and SNMPv3, Access Controller Access Control System (TACACS/TACACS+) and RADIUS authentication, LLDP and LLDP-MED protocol support, VLAN support and tagging support IEEE 802.1Q (4095 VLAN IDs), 802.1s Multiple Spanning Tree, 802.1x Authentication, Auto MDI/MDIX, BPDU Guard, Root Guard, Dual-Mode VLANs, MAC-based VLANs, Dynamic MAC-based VLAN activation, Dynamic VLAN Assignment, Fast Port Span, 802.1s Multiple Spanning Tree, IGMP Snooping (v1/v2/v3), IGMP Proxy for Static Groups, IGMP v2/v3 Fast Leave, Inter-Packet Gap (IPG) adjustment, Link Fault Signaling (LFS), MAC Address Filtering, MAC Learning Disable, Multi-device Authentication, Per-VLAN Spanning Tree (PVST/PVST+/PRST), Mirroring: Port-based, ACL-based, MAC Filter-based and VLAN-based, PIM-SM v2 Snooping, Port Loop Detection, Private VLAN, Remote Fault Notification (RFN), Single instance Spanning Tree, Trunk Groups (static, LACP), Uni-Directional Link Detection (UDLD), Metro-Ring Protocol (MRP) (v1, v2), Virtual Switch Redundancy Protocol (VSRP), Q-in-Q and selective Q-in-Q, VLAN Mapping, Topology Groups, IPv4 and IPv6 static routes - RIP v1/v2, RIPng, ECMP, Port-based Access Control Lists, Layer 3/Layer 4 ACLs, Host routes, Virtual Interfaces, Routed Interfaces, Route-only Support, Routing Between Directly Connected Subnets, support for third-party transceivers, 1G or 10G and stacking cables			
2.7	FIFTY (50) UNITS TRANSCEIVER: 1000Base-SX SFP optic, MMF, LC connector, Optical Monitoring Capable	50	units	
3	Supply of Network switches complete with compatible accessories such as Small Form-factor Pluggable (SFP) modules, support and license, fans, power cords, centralized monitoring	1	lot	
4	Supply, installation, termination, and testing with test results, of CAT6 cables or fiber optic cables as per project specifications. Optical Time Domain Reflectometer for fiber optic cables and Fluke tester for copper cables.	1	lot	
5	Install patch panels, racks and cabinets as required;	1	lot	

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6	Network engineering configurations, activations and connectivity. Finalization of Network Structures, submission of as-built design in 20x30 digiblu print 4-sets signed and sealed documentations, test results, technical specification and manuals	1	lot	
7	<p>Provision of Technical Training, Overview and knowledge transfer to ten(10) DAP Officer / Staff</p> <p>Provide one(1) year warranty support with monthly system and connectivity checkup and monitoring with 24/7 on-call and on-site support, response time should be available within four (4) hours.</p> <p>Certificate of Warranty to DAP (End User) on all supplied equipment and cabling for one (1) year or as per manufacturer's standard and post-installation support for one (1) year.</p> <p><i>Note:</i> Bidder should have its own Technical Support Team, based in the Philippines to perform the technical support duties for the procuring entity covering all functions of the project.</p>	1	lot	

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

SIGNATURE OF THE AUTHORIZED REPRESENTATIVE	
NAME OF THE AUTHORIZED REPRESENTATIVE	
POSITION TITLE OF SIGNATORY:	
NAME OF FIRM\BIDDER:	
POSTAL ADDRESS:	
TELEPHONE NUMBER:	
EMAIL ADDRESS:	
DATE SIGNED:	