



Bid Notice Abstract

Invitation to Bid (ITB)

Reference Number 12183583
Procuring Entity CARLOS HILADO MEMORIAL STATE UNIVERSITY
Title Procurement of Turn-Key Project: Hyperconverged Infrastructure, Firewall and Switches for Centralized Network of the University
Area of Delivery Negros Occidental

Solicitation Number:	CHMSU 25-013-0702-G	Status	Pending
Trade Agreement:	Implementing Rules and Regulations	Associated Components	8
Procurement Mode:	Public Bidding	Bid Supplements	0
Classification:	Goods	Document Request List	0
Category:	Information Technology	Date Published	03/07/2025
Approved Budget for the Contract:	PHP 15,000,000.00	Last Updated / Time	02/07/2025 16:46 PM
Delivery Period:	120 Day/s	Closing Date / Time	24/07/2025 09:00 AM
Client Agency:			
Contact Person:	Rowena De la Vida Prado Administrative Assistant II Mabini Street Talisay City Negros Occidental Philippines 6115 63-34-7120005 Ext.142 63-939-9296624 bac.sec@chmsu.edu.ph		

Description

CARLOS HILADO MEMORIAL STATE UNIVERSITY
 BIDS AND AWARDS COMMITTEE
 TALISAY CITY, NEGROS OCCIDENTAL

INVITATION TO BID
 FOR THE PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES
 FOR CENTRALIZED NETWORK OF THE UNIVERSITY
 CHMSU 25-013-0702-G

1. The Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2025 approved by the governing Board (STF/CO), intends to apply the sum of FIFTEEN MILLION PESOS & 00/100 (Php 15,000,000.00) ONLY being the Approved Budget for the Contract (ABC) to payments under the contract for the PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGE INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY. Bids received in excess of the ABC shall be automatically rejected at bid opening.

ONE (1) LOT HYPERCONVERGED INFRASTRUCTURE,
 FIREWALL & SWITCHES FOR CENTRALIZED
 NETWORK Php 15,000,000.00

2. The Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed. Bidders should have completed, within two (2) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using the non-discretionary pass/fail criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Prospective bidders may obtain further information from CARLOS HILADO MEMORIAL STATE UNIVERSITY and inspect the Bidding Documents at the address given below during 8:00 A.M. to 5:00 P.M.

The BAC Secretariat
Brgy. Zone I, Mabini St.,
Talisay City, Negros Occidental

5. A complete set of Bidding Documents may be acquired by interested Bidders on July 3 – July 24, 2025 (9:00A.M.) from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Twenty-Five Thousand Pesos (Php 25,000.00) Only. The Procuring Entity shall allow the bidder to present its proof of payment for the fees.

6. The CHMSU will hold a Pre-Bid conference on 9:30 A.M., July 10, 2025 at Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 540 036 7488, Meeting Password 071025, which shall be open to prospective bidders.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental, (ii) online or electronic submission at bac.sec@chmsu.edu.ph or (iii) both on or before 9:00 A.M., July 24, 2025. Late bids shall not be accepted.

Bids may be submitted through electronic mail to bac.sec@chmsu.edu.ph provided that the bidding documents are compressed into two (2) separate archived folders (zip or rar format) and which each folder shall be labelled as "First Envelope_Name of Company_Project Reference Number" and "Second Envelope_Name of Company_Project Reference Number" and each is uniquely password-protected;

Bidders must submit the printed copies (Original, Copy 1 and Copy 2) of their bidding documents within 3 calendar days from bid opening.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.

9. Bid opening shall be on 09:30 A.M., July 24, 2025, at the Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental through Zoom Meeting ID No. 540 036 7488, Meeting Password 072425. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

10. The Carlos Hilado Memorial State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.

11. For further information, please refer to:

MS. LIGAYA E. FUENTES
Head-BAC Secretariat
Carlos Hilado Memorial State University
Brgy. Zone 1, Mabini St.,
Talisay City, Negros Occidental
Email Add.: bac.sec@chmsu.edu.ph
Telephone Nos.: (034) 454-0529; 454-0584 local 142
Mobile No.: 0939-9296624
Website: chmsu.edu.ph

12. You may visit the following websites:

For downloading of Bidding Documents: chmsu.edu.ph

For online bid submission: bac.sec@chmsu.edu.ph

ANDREW EUSEBIO S. TAN, Ph.D.
BAC Chairperson
Line Items

Item No.	Product/Service Name	Description	Quantity UOM	Budget (PHP)
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1	ONE (1) LOT	Turn-Key Project: Hyperconverged Infrastructure, Firewall and Switches for Centralized Network	1	Lot	15,000,000.00
Pre-bid Conference					
Date		Time	Venue		
10/07/2025		9:30:00 AM	Bidding Room, 2/F Supply and Property Management Bldg., Brgy. Zone 1, Mabini St., Talisay City, Negros Occidental and or through video conferencing or webcasting via Zoom Meeting with ID No. 540 036 7488, Meeting Password 071025		

Created by Rowena De la Vida Prado

Date Created 02/07/2025

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Bids and Awards Committee

INVITATION TO BID FOR THE PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY CHMSU 25-013-0702-G



1. The Carlos Hilado Memorial State University, through the Corporate Budget for the Contract of 2025 approved by the governing Board (STF/CO), intends to apply the sum of **FIFTEEN MILLION PESOS & 00/100 (Php 15,000,000.00) ONLY** being the Approved Budget for the Contract (ABC) to payments under the contract for the **PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGE INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY**. Bids received in excess of the ABC shall be automatically rejected at bid opening.

ONE (1) LOT HYPERCONVERGED INFRASTRUCTURE, FIREWALL & SWITCHES FOR CENTRALIZED NETWORK

Php 15,000,000.00

2. The Carlos Hilado Memorial State University now invites bids for the above Procurement Project. Delivery of the Services is required by **One Hundred Twenty (120) calendar days upon receipt of Notice to Proceed**. Bidders should have completed, within two (2) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
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Brgy. Zone I, Mabini St.,
Talisay City, Negros Occidental

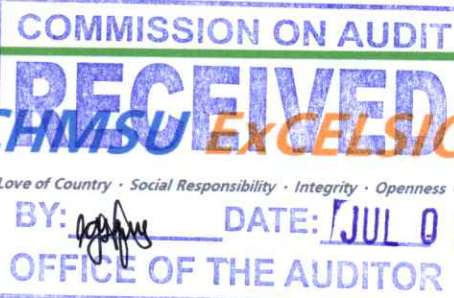
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BY:  DATE: **JUL 02 2025**
OFFICE OF THE AUDITOR



Carlos Hilado Memorial State University

Alijis Campus • Binalbagan Campus • Fortune Towne Campus • Talisay (Main) Campus

A leading GREEN institution of higher learning in the global community by 2030

Bids and Awards Committee

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ANDREW EUSEBIO S. TAN, Ph.D.
BAC Chairperson



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(Good governance, Research-oriented, Extension-driven, Education for Sustainable Development, and Nation-building)

Information and Communication Technology Office

TERMS OF REFERENCE (TOR)

Procurement of Turn-key Project: Hyperconverge Infrastructure, Firewall and Switches for Centralized Network of the University

1. Project Overview

The Carlos Hilado Memorial State University (CHMSU) seeks to centralize its network infrastructure by procuring and implementing a turnkey solution comprising Hyperconverged Infrastructure (HCI), firewalls, and network switches. The project aims to enhance network performance, scalability, security, and management across all campuses.

2. Project Objectives

- Deliver and install all specified hardware, software, and accessories as per the Purchase Request.
- Ensure full integration, configuration, and operational readiness of all systems.
- Provide comprehensive user and administrator training.
- Establish local support and maintenance mechanisms for at least two years post-handover

3. Scope of Work

- Supply, delivery, installation, configuration, and commissioning of HCI, firewalls, and switches as specified in the Purchase Request.
- Integration of all components into a unified, secure, and centrally managed network.
- Migration of existing services and data as required.
- Provision of comprehensive documentation, including network designs, diagrams, configuration guides, and warranty/support details, signed by PECE.
- Conduct user and administrator training for relevant staff and users.
- Ensure compliance with data privacy and security standards throughout installation and configuration.

4. Technical Requirements

- All equipment must meet or exceed the technical specifications in the attached Bill of Materials, including but not limited to: Performance, redundancy, and scalability requirements for HCI and networking hardware
- Compatibility with existing and future infrastructure
- Compliance with industry standards (e.g., IEEE, CE, UL, RoHS), Environmental and operational standards (temperature, humidity, etc.)

5. Warranty and Support:

- User and administrator training for relevant staff
- Documentation, including network designs/ diagrams, configuration guides, and warranty/support details, signed by PECE
- Providing a minimum of two (2) years warranty for all hardware and software.



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Information and Communication Technology Office

- Providing technical support and maintenance services for the duration of the warranty period.
- A Service Help Desk available 24/7 for 2 years
- Local Branch office in Bacolod or Talisay City
- An SLA of 4-hour response time for repairs and support
- Phone Response/Email: Within 60 mins, Mondays-Saturdays
- Technical Response Time: Within 4 Hours, Monday to Sunday
- Restoration: Within 12 Hours, Monday to Sunday
- Resolution: Within 48 Hours, Monday to Sunday
- Troubleshooting: Monday to Sunday

5. Vendor Eligibility:

- PCAB Certificate with Communications Facilities Specialty
- Authorized Manufacturer Partner
- Service Provider Certificate from the Manufacturer
- Integrator Certificate from the Manufacturer
- Network design signed by PECE
- Certified Project Manager to handle the overall implementation
- Certified ECE-Project Engineer to handle day-to-day implementation
- Quality Assurance to ensure compliance with RA9292 standards
- Certified Network Engineer to perform configurations
- The vendor should have a troubleshooting dispatch team for repairs & support 24/7
- Vendor should have Helpdesk Ticketing with 24/7 online support
- Local Office in Negros Occidental

6. Delivery Schedule

- Implementation Timeline: Delivery, installation, and Commissioning must be completed within 120 days from
- receipt of Notice to Proceed
- Provide a detailed S-Curve
- Provide a detailed Project Charter
- Deliverables: Required documentations, complete delivery of all hardware, software, and accessories as per the Bill of Materials, Installation, configuration, and integration of all systems



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Section VI. Schedules of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item #	Description	Quantity	Total	Delivered, Weeks/Months
	ONE (1) LOT			
1	Hyperconverged Infrastructure - Compute	1	1	
	Hyperconverged with Software Defined Major Line Bundle & Perpetual SW License Fabric Interconnect			
	Compute Hyperconverged Fabric Interconnect supports			
	I/O consolidation with end-to-end network virtualization, visibility, and QoS guarantees for the following LAN and SAN traffic. - 2 units			
	• FC SAN, IP Storage (iSCSI, NFS), NVMeoF (NVMe/FC, NVMe/TCP, NVMe over ROCEv2)			
	• Server management and LAN traffic			
	UCS Manager and Intersight Managed Mode - 2units			
	UCS Power Supply/AC 1100W PSU -			
	Port Side Exhaust - 4 units			
	Power Cord Jumper, C13-C14 Connectors,			
	2 Meter Length - 4 units			
	10GBASE-SR SFP Module, Enterprise-Class - 4 units			
	QSFP to SFP10G adapter - 4 units			
	100GBASE-CR4 Passive Copper Cable, 3m - 6 units			
	Intersight SaaS intelligent visualization, optimization, orchestration to bring your teams, tools, infrastructure and apps together - 1 unit			
	Smart Net Total Care (SNTC) service contract for Compute Hyperconverged Fabric Interconnect-2 units			
	Compute Hyperconverged M7 All Flash Node pre-configured UCS servers that are ready to be deployed as nodes to form clusters in a variety of configurations. Each server appliance contains three software layers: UCS server firmware, hypervisor, and hyperconverged storage software - 3 units			
	■ Up to 10 front SFF SAS/SATA SSDs			
	■ One to three half-height PCIe risers or one to two full-height PCIe risers			
	■ M7 12G SAS HBA for (16 Drives)			
	■ 480GB M.2 SATA SSD x 2			
	■ Boot optimized M.2 Raid controller x 2			
	■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2			
	■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2			
	■ HCI AOS AHV 6.8 SW			
	■ UCS M7 Heatsink for & C240 GPU Heatsink			
	■ 1200W Titanium power supply for C-Series Servers x 2			
	■ Power Cord Jumper, C13-C14 Connectors, 2 Meter Length x 2			
	■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3			
	■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4			
	■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s			
	Cluster Deployment and Expansion - Starter -			
	- Base 1 + 3 Var --- 1 unit			
	Starter SW LIC & Production SW Support for 36 core			
	Entitlement ONLY Cloud Infrastructure SW 1			
	License Software 2YRS 1			
2	Network Switches and Firewall for Talisay Campus	1	1	
	100% Cloud-Managed Security Appliance			
	Firewall - 1 unit			
	Maximum NAT Firewall Throughput : 10Gbps			
	Maximum NGFW Throughput : 7.5 Gbps			
	Maximum Site to site VPN : 4.5 Gbps			

Advance Security Throughput : 7 Gbps			
Campus or VPN concentrator with up to 10,000 users			
Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
Lan : 8x GbE RJ45 , 8x GbE SFP, 8x 10 GbE SFP+			
Management : 1x RJ45 Management Interface			
Physical Features :			
Mount Type : Rack mount - 1U			
PSU model number :Modular 100-220V 50/60Hz AC			
2 x 250WAC PSU			
Power load (idle/max) 105W / 190W			
Operating temperature : 32°F to 104°F			
0°C to 40°C			
Humidity 5% to 95%			
Cloud-Managed Network Switch - 24-port - 2 units			
Unified Access Data Plane 2.0 Application-Specific			
Integrated Circuit (ASIC) capable			
Layer-3			
40G or 10G modular uplink options on all models			
mGig support			
Dual Dedicated 120G Hardware Stacking Port			
UPOE (60W per port) & IEEE 802.3bt type3			
StackPower in a ring topology supporting up to 4 switches			
Netflow version 10 (IPFIX) and Encrypted Traffic Analytics			
Micro-Segmentation via Adaptive Policy (Security Group Tags)			
Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
Ethernet Switching Capabilities: 802.1p Quality of Service,			
8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
Single Instance of 802.1s Multiple Spanning Tree Protocol			
(interoperability with RSTP, STP, PVST, RPVST)			
STP Enhancements: BPDU guard, Root guard, Loop guard,			
UDLD			
Broadcast storm control			
802.1ab Link Layer Discovery Protocol (LLDP) and			
discovery Protocol (CDP)			
802.3ad Link aggregation with up to 8 ports per aggregate,			
Multichassis aggregates supported on stacked switches			
Port mirroring			
IGMP snooping for multicast filtering			
MAC Forwarding Entries: 32K			
Stacking: Physically stack up to 8 switches with 480 Gbps of			
stacking bandwidth on all models.			
Virtual stacking supports thousands of switch ports in a single			
logical stack for unified management, monitoring, and			
configuration			
Faster convergence			
StackPower in a ring topology supporting upto 4 switches			
Mount Type : 1RU Rack mount			
Environmental Specifications: Operating Temperature: 32°F			
to 104°F (0°C to 40°C) Storage			
Temperature: -40°F to 158°F (-40°C to 70°C)			
Cloud-Managed Network Switch License Advance -			
24-port - 2YEARS ---- 2 units			
8 x 10GE Network Module - 2 units			
8 x 10 Gigabit Ethernet (10GE) Ports:			
Provides high-speed connections for devices and servers			
that require 10G Ethernet speeds. These ports are ideal for			
backbone connectivity, high-performance data center			
environments, or high-demand aggregation.			
Supported Media Types: These ports can support various			
types of 10G media, including SFP+ (small form-factor			
pluggable plus) transceivers for fiber-optic cables,			
offering flexibility in deployment.			
10 Gbps per Port: Each of the 8 ports can deliver up to 10			
Gbps of bandwidth, offering sufficient capacity for high-speed			
data transmission in modern enterprise networks.			

Cloud Management: The module works within the ecosystem, allowing it to be managed through a cloud-based dashboard, which simplifies setup, monitoring, and troubleshooting across the network.			
Redundancy and Reliability:			
Zero-Touch Provisioning: Simplifies deployment by automatically configuring the module via cloud management platform.			
Advanced QoS and Traffic Management: Supports quality of service (QoS) features for traffic prioritization and bandwidth management.			
Operating Temperature: Typically operates in the range of 32°F to 104°F (0°C to 40°C)			
Storage Temperature: Typically between -13°F to 158°F (25°C to 70°C).			
Humidity: The module is designed to function in environments with a relative humidity range of 10% to 85%, non-condensing.			
50CM Type 1 Stacking Cable-Network -- 2 units			
Cable Length: 50 cm (0.5 meters): Provides the ideal length for connecting stacked devices that are positioned in close proximity to each other.			
Type 1 Stacking Cable: This cable type is specifically designed for interconnecting devices in a stack configuration, supporting high-speed data transfer between multiple switches.			
Plug-and-Play: The cable is easy to install and configure, requiring no additional setup or software for basic connectivity between stacked devices.			
Operating Temperature: Typically operates in environments with temperatures ranging from 32°F to 104°F (0°C to 40°C).			
Storage Temperature: Designed to be stored in temperatures between -13°F to 158°F (-25°C to 70°C).			
Humidity: Suitable for environments with a relative humidity range of 10% to 85%, non-condensing.			
Stack Power Cable 30 CM - 2 units			
Cable Length: 30 cm (0.3 meters): A compact length that is ideal for use when devices in a stack are positioned close together, reducing cable clutter and ensuring neat installation.			
Form Factor: Flexible and compact, the 30 cm length ensures easy routing within tight spaces, making it an ideal choice for environments with limited space.			
Installation: Plug-and-Play: No additional setup is required. Simply connect the cable to the devices in the stack to enable reliable power delivery.			
Operating Temperature: Typically operates within the range of 32°F to 104°F (0°C to 40°C).			
Storage Temperature: Typically between -13°F to 158°F (-25°C to 70°C).			
Humidity: Suitable for use in environments with a relative humidity range of 10% to 85%, non-condensing.			
Data Cabinet 48Ux800Wx1200D, Front single & Rear split Mesh Door, with Side Panels, RAL7021 Black, Assembled (Build up with Pallet) - 1 unit			
Network and Security for Binalbagan, Fortune Towne and Alijis Campus			
100% Cloud-Managed Security Appliance			
Firewall - 3 units			
Maximum NAT Firewall Throughput : 7.5 Gbps			
Maximum NGFW Throughput : 3.5 Gbps			
Maximum Site to site VPN : 3.5 Gbps			
Advance Security Throughput : 3.5 Gbps			
Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
Lan : 8x SFP+ / 10 Gigabit Ethernet LAN Ports			

8x SFP / 1 Gigabit Ethernet LAN Ports			
8x RJ45 / Gigabit Ethernet LAN Ports			
Management : 1x RJ45 Management Interface			
Physical Feature :			
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PSU model number : Modular 100-220V 50/60Hz AC			
2 x 250WAC PSU			
Power load (idle/max) 105W / 190W			
Operating temperature			
32°F to 104°F			
0°C to 40°C			
Humidity 5% to 95%			
Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units			
Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable			
Layer-3			
Four SFP+(10G/1G) fixed uplinks on all models			
mGig support on UPOE models			
320G Dual Dedicated Hardware Stacking Ports			
UPOE (60W per port) & IEEE 802.3bt type3			
Redundant hotswappable power supplies and replaceable fans			
Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
4 x 1G/10G SFP+ uplink ports (for fiber or copper connections)			
Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
Single Instance of 802.1s Multiple Spanning Tree Protocol (interoperability with RSTP, STP, PVST, RPVST)			
STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD			
Broadcast storm control			
802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP)			
802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches			
Port mirroring			
IGMP snooping for multicast filtering			
MAC Forwarding Entries: 32K			
Management			
Managed via Cloud Dashboard			
Zero-touch remote provisioning (no staging needed)			
SNMP and SYSLOG support for integration with other network management solutions			
Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models.			
StackPower in a ring topology supporting upto 4 switches			
Mount Type : 1RU Rack mount			
Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage			
Temperature: -40°F to 158°F (-40°C to 70°C)			
Relative Humidity: 10% to 85% non-condensing			
License for Cloud-Managed Network Switch - 24-port data- 2YEARS -- 6 units			
Stacking Kit - 6 units			
Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable			
10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units			
Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers.			
LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.			
Fiber Type:			
Multi-Mode Fiber (MMF): Designed for use with multi-			

	mode fiber cables, which are optimized for shorter distances.			
	MMF uses multiple light paths to transmit data, which can			
	reduce the cost of fiber infrastructure over shorter distances.			
	Wavelength:			
	850 nm: Operates at an 850 nm wavelength, a common			
	choice for multi-mode fiber connections, enabling high-speed			
	data transmission over short distances.			
	Maximum Reach: Up to 300 meters (depending on the fiber			
	type and quality): The maximum reach depends on the fiber			
	type used and the quality of the installation, but it typically			
	supports distances up to 300 meters over OM3 fiber or up to			
	400 meters over OM4 fiber.			
	850 nm: Operates at an 850 nm wavelength, a common			
	choice for multi-mode fiber connections, enabling high-speed			
	data transmission over short distances.			
	Maximum Reach: Up to 300 meters (depending on the fiber			
	type and quality): The maximum reach depends on the fiber			
	type used and the quality of the installation, but it typically			
	supports distances up to 300 meters over OM3 fiber or up to			
	400 meters over OM4 fiber.			
	Power Consumption			
	0°C to 70°C (32°F to 158°F): Suitable for standard operating			
	environments, such as data centers, server rooms, or			
	network closets.			
	1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units			
	Data Rate:			
	1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering			
	1 Gbps data transfer rate for network connections.			
	Transceiver Type:			
	LC Duplex Connector: Uses LC duplex connectors for bi-			
	directional data transmission over two fiber strands, enabling			
	efficient communication between network devices.			
	Fiber Type:			
	Multi-Mode Fiber (MMF): Designed specifically for use with			
	multi-mode fiber cables, optimized for short-range			
	transmission over distances ranging from a few meters up			
	to several hundred meters, depending on the fiber type.			
	Wavelength:			
	850 nm: Operates at an 850 nm wavelength, which is			
	commonly used for short-range, high-speed fiber-optic			
	communication over multi-mode fiber.			
	Maximum Reach:			
	Up to 550 meters: The reach depends on the fiber's grade			
	and quality. Over OM3 multimode fiber, it typically supports			
	distances of up to 550 meters. For OM4 fiber, the distance			
	can be up to 550 meters at 1 Gbps.			
	Power Consumption:			
	0°C to 70°C (32°F to 158°F): Suitable for a wide range of			
	operating environments, including data centers and server			
	rooms, where temperature variations are typically moderate.			
	Data Cabinet 48Ux800Wx1200D, Front single & Rear			
	split Mesh Door, with Side Panels, RAL7021 Black,			
	Assembled (Build up with Pallet) - 3 units			
	NOTE: Attach Certificate of Site Inspection			
	-X-			
	TOTAL ABC = Php 15,000,000.00			
	PR # 25-624-0528 05-28-2025/A. Torres			
	INCOME 417-164-25-05 05-29-2025			
	Note: All items should be delivered within One Hundred Twenty (120) calendar days			
	upon receipt of notice to proceed.			

Section VII. Technical Specifications

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 Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of ITB Clause 3.1(a.2) and/or GCC Clause 2.1(a.2).
	ONE (1) LOT	
1	Hyperconverged Infrastructure - Compute Hyperconverged with Software Defined Major Line Bundle & Perpetual SW License Fabric Interconnect	
	Compute Hyperconverged Fabric Interconnect supports	
	I/O consolidation with end-to-end network virtualization, visibility, and QoS guarantees for the following LAN and SAN traffic. - 2 units	
	• FC SAN, IP Storage (iSCSI, NFS), NVMeoF (NVMe/FC, NVMe/TCP, NVMe over ROCEv2)	
	• Server management and LAN traffic	
	UCS Manager and Intersight Managed Mode - 2units	
	UCS Power Supply/AC 1100W PSU - Port Side Exhaust - 4 units	
	Power Cord Jumper, C13-C14 Connectors,	
	2 Meter Length - 4 units	
	10GBASE-SR SFP Module, Enterprise-Class - 4 units	
	QSFP to SFP10G adapter - 4 units	
	100GBASE-CR4 Passive Copper Cable, 3m - 6 units	
	Intersight SaaS intelligent visualization, optimization, orchestration to bring your teams, tools, infrastructure and apps together - 1 unit	
	Smart Net Total Care (SNTC) service contract for Compute Hyperconverged Fabric Interconnect-2 units	
	Compute Hyperconverged M7 All Flash Node pre-configured UCS servers that are ready to be deployed as nodes to form clusters in a variety of configurations. Each server appliance contains three software layers: UCS server firmware, hypervisor, and hyperconverged storage software - 3 units	
	■ Up to 10 front SFF SAS/SATA SSDs	
	■ One to three half-height PCIe risers or one to two full-	

	height PCIe risers	
	■ M7 12G SAS HBA for (16 Drives)	
	■ 480GB M.2 SATA SSD x 2	
	■ Boot optimized M.2 Raid controller x 2	
	■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2	
	■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2	
	■ HCI AOS AHV 6.8 SW	
	■ UCS M7 Heatsink for & C240 GPU Heatsink	
	■ 1200W Titanium power supply for C-Series Servers x 2	
	■ Power Cord Jumper, C13-C14 Connectors, 2 Meter Length x 2	
	■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3	
	■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4	
	■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s	
	Cluster Deployment and Expansion - Starter -	
	- Base 1 + 3 Var --- 1 unit	
	Starter SW LIC & Production SW Support for 36 core	
	Entitlement ONLY Cloud Infrastructure SW 1	
	License Software 2YRS 1	
2	Network Switches and Firewall for Talisay Campus	
	100% Cloud-Managed Security Appliance	
	Firewall - 1 unit	
	Maximum NAT Firewall Throughput : 10Gbps	
	Maximum NGFW Throughput : 7.5 Gbps	
	Maximum Site to site VPN : 4.5 Gbps	
	Advance Security Throughput : 7 Gbps	
	Campus or VPN concentrator with up to 10,000 users	
	Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink	
	Lan : 8x GbE RJ45 , 8x GbE SFP, 8x 10 GbE SFP+	
	Management : 1x RJ45 Management Interface	
	Physical Features :	
	Mount Type : Rack mount - 1U	
	PSU model number :Modular 100-220V 50/60Hz AC	
	2 x 250WAC PSU	
	Power load (idle/max) 105W / 190W	
	Operating temperature : 32°F to 104°F	
	0°C to 40°C	
	Humidity 5% to 95%	
	Cloud-Managed Network Switch - 24-port - 2 units	
	Unified Access Data Plane 2.0 Application-Specific	
	Integrated Circuit (ASIC) capable	
	Layer-3	
	40G or 10G modular uplink options on all models	
	mGig support	
	Dual Dedicated 120G Hardware Stacking Port	
	UPOE (60W per port) & IEEE 802.3bt type3	
	StackPower in a ring topology supporting up to 4 switches	
	Netflow version 10 (IPFIX) and Encrypted Traffic Analytics	
	Micro-Segmentation via Adaptive Policy (Security Group Tags)	
	Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)	
	Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)	
	Single Instance of 802.1s Multiple Spanning Tree Protocol (interoperability with RSTP, STP, PVST, RPVST)	
	STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD	
	Broadcast storm control	
	802.1ab Link Layer Discovery Protocol (LLDP) and discovery Protocol (CDP)	
	802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches	
	Port mirroring	
	IGMP snooping for multicast filtering	
	MAC Forwarding Entries: 32K	
	Stacking: Physically stack up to 8 switches with 480 Gbps of	

	stacking bandwidth on all models.	
	Virtual stacking supports thousands of switch ports in a single logical stack for unified management, monitoring, and configuration	
	Faster convergence	
	StackPower in a ring topology supporting upto 4 switches	
	Mount Type : 1RU Rack mount	
	Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C)	
	Cloud-Managed Network Switch License Advance - 24-port - 2YEARS ---- 2 units	
	8 x 10GE Network Module - 2 units	
	8 x 10 Gigabit Ethernet (10GE) Ports:	
	Provides high-speed connections for devices and servers that require 10G Ethernet speeds. These ports are ideal for backbone connectivity, high-performance data center environments, or high-demand aggregation.	
	Supported Media Types: These ports can support various types of 10G media, including SFP+ (small form-factor pluggable plus) transceivers for fiber-optic cables, offering flexibility in deployment.	
	10 Gbps per Port: Each of the 8 ports can deliver up to 10 Gbps of bandwidth, offering sufficient capacity for high-speed data transmission in modern enterprise networks.	
	Cloud Management: The module works within the ecosystem, allowing it to be managed through a cloud-based dashboard, which simplifies setup, monitoring, and troubleshooting across the network.	
	Redundancy and Reliability:	
	Zero-Touch Provisioning: Simplifies deployment by automatically configuring the module via cloud management platform.	
	Advanced QoS and Traffic Management: Supports quality of service (QoS) features for traffic prioritization and bandwidth management.	
	Operating Temperature: Typically operates in the range of 32°F to 104°F (0°C to 40°C)	
	Storage Temperature: Typically between -13°F to 158°F (25°C to 70°C).	
	Humidity: The module is designed to function in environments with a relative humidity range of 10% to 85%, non-condensing.	
	50CM Type 1 Stacking Cable-Network -- 2 units	
	Cable Length: 50 cm (0.5 meters): Provides the ideal length for connecting stacked devices that are positioned in close proximity to each other.	
	Type 1 Stacking Cable: This cable type is specifically designed for interconnecting devices in a stack configuration, supporting high-speed data transfer between multiple switches.	
	Plug-and-Play: The cable is easy to install and configure, requiring no additional setup or software for basic connectivity between stacked devices.	
	Operating Temperature: Typically operates in environments with temperatures ranging from 32°F to 104°F (0°C to 40°C).	
	Storage Temperature: Designed to be stored in temperatures between -13°F to 158°F (-25°C to 70°C).	
	Humidity: Suitable for environments with a relative humidity range of 10% to 85%, non-condensing.	
	Stack Power Cable 30 CM - 2 units	
	Cable Length: 30 cm (0.3 meters): A compact length that is ideal for use when devices in a stack are positioned close together, reducing cable clutter and ensuring neat installation.	
	Form Factor: Flexible and compact, the 30 cm length ensures	

	easy routing within tight spaces, making it an ideal choice for environments with limited space.	
	Installation: Plug-and-Play: No additional setup is required.	
	Simply connect the cable to the devices in the stack to enable reliable power delivery.	
	Operating Temperature: Typically operates within the range of 32°F to 104°F (0°C to 40°C).	
	Storage Temperature: Typically between -13°F to 158°F (-25°C to 70°C).	
	Humidity: Suitable for use in environments with a relative humidity range of 10% to 85%, non-condensing.	
	Data Cabinet 48Ux800Wx1200D, Front single & Rear split Mesh Door, with Side Panels, RAL7021 Black, Assembled (Build up with Pallet) - 1 unit	
	Network and Security for Binalbagan, Fortune Towne and Alijis Campus	
	100% Cloud-Managed Security Appliance	
	Firewall - 3 units	
	Maximum NAT Firewall Throughput : 7.5 Gbps	
	Maximum NGFW Throughput : 3.5 Gbps	
	Maximum Site to site VPN : 3.5 Gbps	
	Advance Security Throughput : 3.5 Gbps	
	Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink	
	Lan : 8x SFP+ / 10 Gigabit Ethernet LAN Ports	
	8x SFP / 1 Gigabit Ethernet LAN Ports	
	8x RJ45 / Gigabit Ethernet LAN Ports	
	Management : 1x RJ45 Management Interface	
	Physical Feature :	
	Mount Type : Rack mount	
	PSU model number : Modular 100-220V 50/60Hz AC	
	2 x 250WAC PSU	
	Power load (idle/max) 105W / 190W	
	Operating temperature	
	32°F to 104°F	
	0°C to 40°C	
	Humidity 5% to 95%	
	Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units	
	Unified Access Data Plane 2.0 Application-Specific Integrated Circuit (ASIC) capable	
	Layer-3	
	Four SFP+(10G/1G) fixed uplinks on all models	
	mGig support on UPOE models	
	320G Dual Dedicated Hardware Stacking Ports	
	UPOE (60W per port) & IEEE 802.3bt type3	
	Redundant hotswappable power supplies and replaceable fans	
	Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)	
	4 x 1G/10G SFP+ uplink ports (for fiber or copper connections)	
	Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)	
	Single Instance of 802.1s Multiple Spanning Tree Protocol (Interoperability with RSTP, STP, PVST, RPVST)	
	STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD	
	Broadcast storm control	
	802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP)	
	802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches	
	Port mirroring	
	IGMP snooping for multicast filtering	
	MAC Forwarding Entries: 32K	
	Management	
	Managed via Cloud Dashboard	
	Zero-touch remote provisioning (no staging needed)	

SNMP and SYSLOG support for integration with other network management solutions	
Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models.	
StackPower in a ring topology supporting upto 4 switches	
Mount Type : 1RU Rack mount	
Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage Temperature: -40°F to 158°F (-40°C to 70°C) Relative Humidity: 10% to 85% non-condensing	
License for Cloud-Managed Network Switch - 24-port datac- 2YEARS -- 6 units	
Stacking Kit - 6 units	
Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable	
10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units	
Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers.	
LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.	
Fiber Type:	
Multi-Mode Fiber (MMF): Designed for use with multi-mode fiber cables, which are optimized for shorter distances. MMF uses multiple light paths to transmit data, which can reduce the cost of fiber infrastructure over shorter distances.	
Wavelength:	
850 nm: Operates at an 850 nm wavelength, a common choice for multi-mode fiber connections, enabling high-speed data transmission over short distances.	
Maximum Reach: Up to 300 meters (depending on the fiber type and quality): The maximum reach depends on the fiber type used and the quality of the installation, but it typically supports distances up to 300 meters over OM3 fiber or up to 400 meters over OM4 fiber.	
850 nm: Operates at an 850 nm wavelength, a common choice for multi-mode fiber connections, enabling high-speed data transmission over short distances.	
Maximum Reach: Up to 300 meters (depending on the fiber type and quality): The maximum reach depends on the fiber type used and the quality of the installation, but it typically supports distances up to 300 meters over OM3 fiber or up to 400 meters over OM4 fiber.	
Power Consumption	
0°C to 70°C (32°F to 158°F): Suitable for standard operating environments, such as data centers, server rooms, or network closets.	
1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units	
Data Rate:	
1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering 1 Gbps data transfer rate for network connections.	
Transceiver Type:	
LC Duplex Connector: Uses LC duplex connectors for bi-directional data transmission over two fiber strands, enabling efficient communication between network devices.	
Fiber Type:	
Multi-Mode Fiber (MMF): Designed specifically for use with multi-mode fiber cables, optimized for short-range transmission over distances ranging from a few meters up to several hundred meters, depending on the fiber type.	
Wavelength:	
850 nm: Operates at an 850 nm wavelength, which is commonly used for short-range, high-speed fiber-optic	

	communication over multi-mode fiber.	
	Maximum Reach:	
	Up to 550 meters: The reach depends on the fiber's grade and quality. Over OM3 multimode fiber, it typically supports distances of up to 550 meters. For OM4 fiber, the distance can be up to 550 meters at 1 Gbps.	
	Power Consumption:	
	0°C to 70°C (32°F to 158°F): Suitable for a wide range of operating environments, including data centers and server rooms, where temperature variations are typically moderate.	
	Data Cabinet 48Ux800Wx1200D, Front single & Rear split Mesh Door, with Side Panels, RAL7021 Black, Assembled (Build up with Pallet) - 3 units	
	NOTE: Attach Certificate of Site Inspection	
	-X-X-X-X-X-X-X-X-X-X-nothing follows-X-X-X-X-X-X-X-X-X-X-	
	TOTAL ABC = Php 15,000,000.00	
	PR # 25-624-0528 05-28-2025/A. Torres	
	INCOME 417-164-25-05 05-29-2025	



**CARLOS HILADO MEMORIAL STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE**

Talisay City, Negros Occidental
Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: **CHMSU 25-013-0702-G**
Name of the Project: **PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY**
Location of the Project: **UNIVERSITY WIDE**

page 1 of 8

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			ONE (1) LOT			
1	1	lot	Hyperconverged Infrastructure - Compute Hyperconverged with Software Defined Major Line Bundle & Perpetual SW License Fabric Interconnect			
			Compute Hyperconverged Fabric Interconnect supports			
			I/O consolidation with end-to-end network virtualization, visibility, and QoS guarantees for the following LAN and SAN traffic. - 2 units			
			• FC SAN, IP Storage (iSCSI, NFS), NVMeoF (NVMe/FC, NVMe/TCP, NVMe over ROCEv2)			
			• Server management and LAN traffic			
			UCS Manager and Intersight Managed Mode - 2units			
			UCS Power Supply/AC 1100W PSU - Port Side Exhaust - 4 units			
			Power Cord Jumper, C13-C14 Connectors,			
			2 Meter Length - 4 units			
			10GBASE-SR SFP Module, Enterprise-Class - 4 units			
			QSFP to SFP10G adapter - 4 units			
			100GBASE-CR4 Passive Copper Cable, 3m - 6 units			
			Intersight SaaS intelligent visualization, optimization, orchestration to bring your teams, tools, infrastructure and apps together - 1 unit			
			Smart Net Total Care (SNTC) service contract for Compute Hyperconverged Fabric Interconnect-2 units			
			Compute Hyperconverged M7 All Flash Node pre-configured UCS servers that are ready to be deployed as nodes to form clusters in a variety of configurations. Each server appliance contains three software layers: UCS server firmware, hypervisor, and hyperconverged storage software - 3 units			
			■ Up to 10 front SFF SAS/SATA SSDs			
			■ One to three half-height PCIe risers or one to two full-height PCIe risers			
			■ M7 12G SAS HBA for (16 Drives)			
			■ 480GB M.2 SATA SSD x 2			
			■ Boot optimized M.2 Raid controller x 2			
			■ Ball Bearing Rail Kit for C220 & C240 M7/M8 rack servers x 2			
			■ TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for servers x 2			
			■ HCI AOS AHV 6.8 SW			

Signature of Bidder _____
Name of Firm _____
Date _____



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Location of the Project: **UNIVERSITY WIDE**

page 2 of 8

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			■ UCS M7 Heatsink for & C240 GPU Heatsink			
			■ 1200W Titanium power supply for C-Series Servers x 2			
			■ Power Cord Jumper, C13-C14 Connectors, 2 Meter Length x 2			
			■ 1.9TB 2.5in Enter Value 6G SATA Micron G2 SSD x 3			
			■ 32GB DDR5-4800 RDIMM 1Rx4 (16Gb) x 4			
			■ Intel I4410Y 2GHz/150W 12C/30MB DDR5 4000MT/s			
			Cluster Deployment and Expansion - Starter -			
			- Base 1 + 3 Var --- 1 unit			
			Starter SW LIC & Production SW Support for 36 core			
			Entitlement ONLY Cloud Infrastructure SW 1			
			License Software 2YRS 1			
2	1	lot	Network Switches and Firewall for Talisay Campus			
			100% Cloud-Managed Security Appliance			
			Firewall - 1 unit			
			Maximum NAT Firewall Throughput : 10Gbps			
			Maximum NGFW Throughput : 7.5 Gbps			
			Maximum Site to site VPN : 4.5 Gbps			
			Advance Security Throughput : 7 Gbps			
			Campus or VPN concentrator with up to 10,000 users			
			Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
			Lan : 8x GbE RJ45 , 8x GbE SFP, 8x 10 GbE SFP+			
			Management : 1x RJ45 Management Interface			
			Physical Features :			
			Mount Type : Rack mount - 1U			
			PSU model number :Modular 100-220V 50/60Hz AC			
			2 x 250WAC PSU			
			Power load (idle/max) 105W / 190W			
			Operating temperature : 32°F to 104°F			
			0°C to 40°C			
			Humidity 5% to 95%			
			Cloud-Managed Network Switch - 24-port - 2 units			
			Unified Access Data Plane 2.0 Application-Specific			
			Integrated Circuit (ASIC) capable			
			Layer-3			
			40G or 10G modular uplink options on all models			
			mGig support			
			Dual Dedicated 120G Hardware Stacking Port			

Signature of Bidder _____
Name of Firm _____
Date _____



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Location of the Project: **UNIVERSITY WIDE**

page 3 of 8

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			UPOE (60W per port) & IEEE 802.3bt type3			
			StackPower in a ring topology supporting up to 4 switches			
			Netflow version 10 (IPFIX) and Encrypted Traffic Analytics			
			Micro-Segmentation via Adaptive Policy (Security Group Tags)			
			Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
			Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
			Single Instance of 802.1s Multiple Spanning Tree Protocol (interoperability with RSTP, STP, PVST, RPVST)			
			STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD			
			Broadcast storm control			
			802.1ab Link Layer Discovery Protocol (LLDP) and discovery Protocol (CDP)			
			802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches			
			Port mirroring			
			IGMP snooping for multicast filtering			
			MAC Forwarding Entries: 32K			
			Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models.			
			Virtual stacking supports thousands of switch ports in a single logical stack for unified management, monitoring, and configuration			
			Faster convergence			
			StackPower in a ring topology supporting upto 4 switches			
			Mount Type : 1RU Rack mount			
			Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage			
			Temperature: -40°F to 158°F (-40°C to 70°C)			
			Cloud-Managed Network Switch License Advance - 24-port - 2YEARS ---- 2 units			
			8 x 10GE Network Module - 2 units			
			8 x 10 Gigabit Ethernet (10GE) Ports:			
			Provides high-speed connections for devices and servers that require 10G Ethernet speeds. These ports are ideal for backbone connectivity, high-performance data center environments, or high-demand aggregation.			
			Supported Media Types: These ports can support various			

Signature of Bidder _____
Name of Firm _____
Date _____



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BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			types of 10G media, including SFP+ (small form-factor pluggable plus) transceivers for fiber-optic cables, offering flexibility in deployment.			
			10 Gbps per Port: Each of the 8 ports can deliver up to 10 Gbps of bandwidth, offering sufficient capacity for high-speed data transmission in modern enterprise networks.			
			Cloud Management: The module works within the ecosystem, allowing it to be managed through a cloud-based dashboard, which simplifies setup, monitoring, and troubleshooting across the network.			
			Redundancy and Reliability:			
			Zero-Touch Provisioning: Simplifies deployment by automatically configuring the module via cloud management platform.			
			Advanced QoS and Traffic Management: Supports quality of service (QoS) features for traffic prioritization and bandwidth management.			
			Operating Temperature: Typically operates in the range of 32°F to 104°F (0°C to 40°C)			
			Storage Temperature: Typically between -13°F to 158°F (25°C to 70°C).			
			Humidity: The module is designed to function in environments with a relative humidity range of 10% to 85%, non-condensing.			
			50CM Type 1 Stacking Cable-Network -- 2 units			
			Cable Length: 50 cm (0.5 meters): Provides the ideal length for connecting stacked devices that are positioned in close proximity to each other.			
			Type 1 Stacking Cable: This cable type is specifically designed for interconnecting devices in a stack configuration, supporting high-speed data transfer between multiple switches.			
			Plug-and-Play: The cable is easy to install and configure, requiring no additional setup or software for basic connectivity between stacked devices.			
			Operating Temperature: Typically operates in environments with temperatures ranging from 32°F to 104°F (0°C to 40°C).			
			Storage Temperature: Designed to be stored in temperatures between -13°F to 158°F (-25°C to 70°C).			
			Humidity: Suitable for environments with a relative humidity range of 10% to 85%, non-condensing.			

Signature of Bidder _____
Name of Firm _____
Date _____



Project Reference No: CHMSU 25-013-0702-G
Name of the Project: PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY
Location of the Project: UNIVERSITY WIDE

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			Stack Power Cable 30 CM - 2 units			
			Cable Length: 30 cm (0.3 meters): A compact length that is ideal for use when devices in a stack are positioned close together, reducing cable clutter and ensuring neat installation.			
			Form Factor: Flexible and compact, the 30 cm length ensures easy routing within tight spaces, making it an ideal choice for environments with limited space.			
			Installation: Plug-and-Play: No additional setup is required. Simply connect the cable to the devices in the stack to enable reliable power delivery.			
			Operating Temperature: Typically operates within the range of 32°F to 104°F (0°C to 40°C).			
			Storage Temperature: Typically between -13°F to 158°F (-25°C to 70°C).			
			Humidity: Suitable for use in environments with a relative humidity range of 10% to 85%, non-condensing.			
			Data Cabinet 48Ux800Wx1200D, Front single & Rear split Mesh Door, with Side Panels, RAL7021 Black, Assembled (Build up with Pallet) - 1 unit			
			Network and Security for Binalbagan, Fortune Towne and Alijis Campus			
			100% Cloud-Managed Security Appliance			
			Firewall - 3 units			
			Maximum NAT Firewall Throughput : 7.5 Gbps			
			Maximum NGFW Throughput : 3.5 Gbps			
			Maximum Site to site VPN : 3.5 Gbps			
			Advance Security Throughput : 3.5 Gbps			
			Wan : 2x SFP+ / 10 Gigabit Ethernet ports for WAN Uplink			
			Lan : 8x SFP+ / 10 Gigabit Ethernet LAN Ports			
			8x SFP / 1 Gigabit Ethernet LAN Ports			
			8x RJ45 / Gigabit Ethernet LAN Ports			
			Management : 1x RJ45 Management Interface			
			Physical Feature :			
			Mount Type : Rack mount			
			PSU model number : Modular 100-220V 50/60Hz AC			
			2 x 250WAC PSU			
			Power load (idle/max) 105W / 190W			
			Operating temperature			

Signature of Bidder _____
Name of Firm _____
Date _____



CARLOS HILADO MEMORIAL STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE
Talisay City, Negros Occidental
Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: **CHMSU 25-013-0702-G**
Name of the Project: **PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY**
Location of the Project: **UNIVERSITY WIDE**

BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			32°F to 104°F			
			0°C to 40°C			
			Humidity 5% to 95%			
			Cloud-Managed Network Switch - 24-port data with 4x10G Uplink - 6 units			
			Unified Access Data Plane 2.0 Application-Specific			
			Integrated Circuit (ASIC) capable			
			Layer-3			
			Four SFP+(10G/1G) fixed uplinks on all models			
			mGig support on UPOE models			
			320G Dual Dedicated Hardware Stacking Ports			
			UPOE (60W per port) & IEEE 802.3bt type3			
			Redundant hotswappable power supplies and replaceable fans			
			Ports: 24 x 10/100/1000 Ethernet ports (Gigabit Ethernet)			
			4 x 1G/10G SFP+ uplink ports (for fiber or copper connections)			
			Ethernet Switching Capabilities: 802.1p Quality of Service, 8 queues (w/ 6 configurable for DSCP-to-CoS mapping)			
			Single Instance of 802.1s Multiple Spanning Tree Protocol (interoperability with RSTP, STP, PVST, RPVST)			
			STP Enhancements: BPDU guard, Root guard, Loop guard, UDLD			
			Broadcast storm control			
			802.1ab Link Layer Discovery Protocol (LLDP) and Cisco Discovery Protocol (CDP)			
			802.3ad Link aggregation with up to 8 ports per aggregate, Multichassis aggregates supported on stacked switches			
			Port mirroring			
			IGMP snooping for multicast filtering			
			MAC Forwarding Entries: 32K			
			Management			
			Managed via Cloud Dashboard			
			Zero-touch remote provisioning (no staging needed)			
			SNMP and SYSLOG support for integration with other network management solutions			
			Stacking: Physically stack up to 8 switches with 480 Gbps of stacking bandwidth on all models.			
			StackPower in a ring topology supporting upto 4 switches			
			Mount Type : 1RU Rack mount			
			Environmental Specifications: Operating Temperature: 32°F to 104°F (0°C to 40°C) Storage			
			Temperature: -40°F to 158°F (-40°C to 70°C)			

Signature of Bidder _____
Name of Firm _____
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Name of the Project: PROCUREMENT OF TURN-KEY PROJECT: HYPERCONVERGED INFRASTRUCTURE, FIREWALL AND SWITCHES FOR CENTRALIZED NETWORK OF THE UNIVERSITY
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BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			Relative Humidity: 10% to 85% non-condensing			
			License for Cloud-Managed Network Switch - 24-port datac- 2YEARS -- 6 units			
			Stacking Kit - 6 units			
			Stack Kit for Cloud-Managed Network Switch. Includes two adapters and one 50cm stack cable			
			10G Base SR Multi-Mode - SFP Fiber Transceiver - 4 units			
			Data Rate:10 Gbps, Supports 10 Gigabit Ethernet (10GbE) data transmission, offering high-speed connectivity for network devices such as switches, routers, and servers.			
			LC Duplex Connector: Uses an LC duplex connector, which allows for bi-directional data transmission over two fibers, enhancing the overall efficiency of the connection.			
			Fiber Type:			
			Multi-Mode Fiber (MMF): Designed for use with multi-mode fiber cables, which are optimized for shorter distances.			
			MMF uses multiple light paths to transmit data, which can reduce the cost of fiber infrastructure over shorter distances.			
			Wavelength:			
			850 nm: Operates at an 850 nm wavelength, a common choice for multi-mode fiber connections, enabling high-speed data transmission over short distances.			
			Maximum Reach: Up to 300 meters (depending on the fiber type and quality): The maximum reach depends on the fiber type used and the quality of the installation, but it typically supports distances up to 300 meters over OM3 fiber or up to 400 meters over OM4 fiber.			
			850 nm: Operates at an 850 nm wavelength, a common choice for multi-mode fiber connections, enabling high-speed data transmission over short distances.			
			Maximum Reach: Up to 300 meters (depending on the fiber type and quality): The maximum reach depends on the fiber type used and the quality of the installation, but it typically supports distances up to 300 meters over OM3 fiber or up to 400 meters over OM4 fiber.			
			Power Consumption			
			0°C to 70°C (32°F to 158°F): Suitable for standard operating environments, such as data centers, server rooms, or network closets.			

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**CARLOS HILADO MEMORIAL STATE UNIVERSITY
BIDS AND AWARDS COMMITTEE**

Talisay City, Negros Occidental
Tel. Nos.: (034) 454-0529; 454-0584 Local 142

Project Reference No: **CHMSU 25-013-0702-G**
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BILL OF QUANTITIES

Date: _____

Item No.	Qty	Unit	ARTICLES and DESCRIPTION	ABC/ UNIT	Unit Price	Total Price
			1000Base SX Multi-Mode - SFP Fiber Transceiver - 6 units			
			Data Rate:			
			1 Gbps (Gigabit Ethernet): Supports 1000Base-SX, delivering			
			1 Gbps data transfer rate for network connections.			
			Transceiver Type:			
			LC Duplex Connector: Uses LC duplex connectors for bi-			
			directional data transmission over two fiber strands, enabling			
			efficient communication between network devices.			
			Fiber Type:			
			Multi-Mode Fiber (MMF): Designed specifically for use with			
			multi-mode fiber cables, optimized for short-range			
			transmission over distances ranging from a few meters up			
			to several hundred meters, depending on the fiber type.			
			Wavelength:			
			850 nm: Operates at an 850 nm wavelength, which is			
			commonly used for short-range, high-speed fiber-optic			
			communication over multi-mode fiber.			
			Maximum Reach:			
			Up to 550 meters: The reach depends on the fiber's grade			
			and quality. Over OM3 multimode fiber, it typically supports			
			distances of up to 550 meters. For OM4 fiber, the distance			
			can be up to 550 meters at 1 Gbps.			
			Power Consumption:			
			0°C to 70°C (32°F to 158°F): Suitable for a wide range of			
			operating environments, including data centers and server			
			rooms, where temperature variations are typically moderate.			
			Data Cabinet 48Ux800Wx1200D, Front single & Rear			
			split Mesh Door, with Side Panels, RAL7021 Black,			
			Assembled (Build up with Pallet) - 3 units			
			NOTE: Attach Certificate of Site Inspection			
			-X-X-X-X-X-X-X-X-X-X-nothing follows-X-X-X-X-X-X-X-X-X-X-			
			TOTAL ABC = Php 15,000,000.00			
			PR # 25-624-0528 05-28-2025/A. Torres			
			INCOME 417-164-25-05 05-29-2025			

Signature of Bidder _____
Name of Firm _____
Date _____



Adis Campus · Binalbagan Campus · Fortune Yverse Campus · Talca (Main) Campus

A leading global institution of higher learning in the global community by 2020

A leading GREEN institution of higher learning in the global community by 2020

Human Resource Management Office

June 18, 2025 (Wed), 1:00PM - 5:00PM

SMX, Bacolod City

GENERAL ADMINISTRATIVE AND SUPPORT SERVICES

TALISAY CAMPUS

NO.	NAME	SEX	SIGNATURE
1	AGUIRRE, VANESSA R	F	
2	ALCONTIN, SHIELA M.	F	
3	ARMONES, CARMELI L.	M	
4	CASIS, PRINCESS SHALOOM V.	F	
5	CEPEDA, GLADYS S.	F	
6	CHAVEZ, DESIRE O.	F	
7	DUMABOC, CHRISTINE JOY M.	F	
8	ESCANDELOR, GALE FLORENCE B.	F	
9	FALCUNIT, JADE F.	M	
10	FUENTES, LIGAYA E.	F	
11	GEGANTONI, REBECCA C.	F	
12	GUARDIALAO, DONA JEAN C.	F	
13	ILIGAN, SHERWIN R.	M	
14	ISULAT, AERIEL MARIZ S.	F	
15	LEETING, "DC" MAY O.	F	
16	MATA, PETER JONE V.	M	
17	MONES, RYAN JOHN	M	
18	MORENO, JOYCE ANN A.	F	
19	PADIROGAO, CYROSE S.	F	
20	PASION, KIENH DAVID S.	M	
21	PERASOL, DETHER I.	M	
22	PRADO, ROWENA D.	F	
23	REYES, SHEENA D.	F	
24	ROMERO, LORENA D.	F	
25	ROSALLES-CUAYSING, ANNIE ROSE B.	F	
26	SEDEÑO, JOHN CEDRIC B.	M	
27	SIASON, RICCI L.	M	
28	TOLEDO, MAY ANN D.	F	
	VILLA, RENE JOHN	M	
	SOMODIP, MICHAEL JASON	M	
	JANINE RHEIN	F	
	CHANCE BIDDENANISA	F	

Carlos Hilado Memorial State University

ROWENA D. PRADO

(Name)

For the month of: June 1-30, 2025

Official Hour of Arrival and Departure

Day	A.M		P.M		O.T		Undertime	
	Arrival	Depart	Arrival	Depart	Arrival	Depart	Arrival	Depart
1								
2	07:58	12:14	12:31	05:14				
3	07:53	12:12	12:30	05:19				
4	08:06	12:13	12:30	05:29				
5	07:57	12:25	12:30	05:16				
6								
7								
8								
9	07:56	12:27	12:31	05:17				
10	08:02	12:28	12:30	05:05				
11	07:57	12:05	12:48	05:09				
12								
13	08:00	12:23	12:30	05:06				
14								
15								
16	07:51	12:24	12:30	05:04				
17	07:46	12:27	12:31	05:09				
18								
19	07:42	12:13	12:34	05:11				
20	07:47	12:27	12:30	05:27				
21			12:30	05:07				
22								
23	07:42	12:23	12:33	05:09				
24	07:52	12:26	12:30	05:07				
25	07:52	12:28	12:33	05:15				
26	07:59	12:11	12:30	05:12				
27	07:39	12:06	12:30	05:14				
28			01:25	05:06				
29								
30	07:48	12:05	12:53	05:11				
31								

I hereby certify on my honor that the above is true and correct. Report of hours performed, record of which was made daily at the time of arrival and departure from the office.

Employee's Signature
Verified as to prescribed office hours

In-Charge

Carlos Hilado Memorial State University

ROWENA D. PRADO

(Name)

For the month of: June 1-30, 2025

Official Hour of Arrival and Departure

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3	07:53	12:12	12:30	05:19				
4	08:06	12:13	12:30	05:29				
5	07:57	12:25	12:30	05:16				
6								
7								
8								
9	07:56	12:27	12:31	05:17				
10	08:02	12:28	12:30	05:05				
11	07:57	12:05	12:48	05:09				
12								
13	08:00	12:23	12:30	05:06				
14								
15								
16	07:51	12:24	12:30	05:04				
17	07:46	12:27	12:31	05:09				
18								
19	07:42	12:13	12:34	05:11				
20	07:47	12:27	12:30	05:27				
21			12:30	05:07				
22								
23	07:42	12:23	12:33	05:09				
24	07:52	12:26	12:30	05:07				
25	07:52	12:28	12:33	05:15				
26	07:59	12:11	12:30	05:12				
27	07:39	12:06	12:30	05:14				
28			01:25	05:06				
29								
30	07:48	12:05	12:53	05:11				
31								

I hereby certify on my honor that the above is true and correct. Report of hours performed, record of which was made daily at the time of arrival and departure from the office.

Employee's Signature
Verified as to prescribed office hours

In-Charge