



WORK ORDER

DELIVERY DUE DATE: 2/26/2021

Procurement Unit
Tel No.: 045-606-8142/606-8157

Supplier : **EPLDT, INC.**
Address : **5th Floor, LV Locsin Building, Ayala corner Makati Ave, Makati City**
TIN: **207-762-846-000**
Tel. No. : **(02) 8288-8999**

Work Order No.: **2020-072**
Date : **12/9/2020**
JO No. : **2020-039**
Date : **5/29/2020**
Mode of Procurement: **Public Bidding**
Mode of Payment: **N/30**

SIR/MADAM:

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QTY.	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
1	lot	<p>SUPPLY, DELIVERY, INSTALLATION AND CONFIGURATION OF TSU WIFI MODERNIZATION FOR LUCINDA CAMPUS (PHASE 1)</p> <p>Scope of Work - The project covers the acquisition and implementation of access points, and network switch for the Modernization of Tarlac State University Wi-Fi facility for the Lucinda Campus.</p> <p>Detailed Breakdown:</p> <ul style="list-style-type: none"> •Supply, installation and configuration of 1 units 12-port Fiber Switch 10G-SFP ports •Supply, installation and configuration of 3 units 24-port Gigabit Managed Switch PoE with 10G-SFP ports •Supply and installation of 6 units 10G SFP Transceiver Module Multimode •Supply, installation and configuration of 15 units Wireless Access Point Dual Band 2.4Ghz & 5Ghz PoE •Supply, installation of 3 units 1.5ft Wall mounted Cabinet with accessories •Supply and installation of 15 runs of Cat.6 UTP Cable for connectivity of Access points •Supply and installation of roughing-in materials like PVC Pipes and moldings for cable protection. •Termination, testing and labeling of newly install components and equipment included in the Technical Specification •Documentation <p>Technical Specifications:</p> <p>Access Points (15 units)- Extreme Wireless WiNG 7632 Indoor Access Point, 802.11AC Capabilities, 802.11ac 2x2:2, MIMO, MU-MIMO, 256-QAM, HT20/40/80 MHz: Packet Aggregation (AMSDU, AMPDU) RIFS, STBC, LDPC, MIMO Power Save; 802.11ac Tx beamform; MRC, IoT Radio: Bluetooth Low Energy (BLE) v4.2, and IEEE 802.15.4 compliant, Physical Characteristics, Dimensions AP 7632i:</p>	2,756,559.16	2,756,559.16

COMMISSION ON AUDIT - TSU;
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28 DEC 2020

Charge to:
ROA No. :
CONFORME & RECEIVE COPY :

EPLDT, INC. *Juan Victor I. Hernandez*
Firm/Dealer/Supplier/Contractor: *IPR RIZOANT & CO. 12/22/2020*

FUNDS AVAILABLE:
Elena May T. Teofilo
ELENA MAY T. TEOFILO
Head, Budget Office

Date _____
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Bank Account Number: _____
Bank Name: _____
Bank Address: _____

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APPROVED:
Dr. Armee N. Rojel
DR. ARMEE N. ROSEL
VP, Research & Extension Services
Authorized Official

06-206441-20-12-0050



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		6.3 in x 1.7 in, 161 mm diameter x 48.5 mm, AP 7632e: 6.9 in x 5.0in x 1.2 in, 175 mm x 128 mm x 26.9 mm, Weight: AP 7632i: .7 lbs, .3 kg, AP 7632e: 1.4 lbs, .6 kg, Housing: Plenum-rated housing (UL2043), Available Mounting: WiNG bracket compatible, Extreme Multi-Tbar, keyhole slots, Wall04, Configurations: Above drop ceiling, under ceiling or on wall, LEDs Activity Indication: 2 top-mounted LEDs; activity indication, LAN Ethernet 1x IEEE 802.3 Gigabit Ethernet auto-sensing, Antenna AP 7632-680B30: 4dBi - 2.4 GHz band; 6 dBi - 5GHz band, IoT 4.1 dBi, Antenna Connectors AP 7632-680B40: Three RP SMAs: 2 dual band ports, 1 BTLE, Console Port RJ45, USB Port USB2.0 for purpose-built modules. Available on AP-7632-680B40 model, Warranty: Limited Lifetime Warranty, User Environment, Operating Temperature: AP-7632-680B30: 32° F to 104° F/ 0° C to 40° C, AP-7632-680B40: -4° F to 131° F/ -20° C to 55° C ambient temperature anywhere, -4° F to 140° F/ -20° C to 60° C ambient temperature near sea level, Storage Temperature -40°F to 158°F/-40°C to 70°C, Operating Humidity: 0% - 95% (noncondensing), Electrostatic Discharge AP-7632-680B30: 15kV air, 8kV contact, AP-7632-680B40: 12kV air, 6kV contact, Power Specifications: Operating Voltage PoE-PD: 48VDC; Wall brick: 12VDC, Operating Current PoE-PD: 230mA at 48V; Wall brick: 1.5a, PoE-PD Class 802.3af, 802.3at, Power Consumption AP 7632i Typical: 11 W, Idle (Radios ON): 4.8 W, AP 7632e Typical: 10 W, Idle (Radios ON): 4.8 W w/o USB consumption, Networking Specification: Layer 2 and Layer 3 Layer 3 routing, 802.1q, DynDNS, DHCP server/client, BOOTP client, PPPoE and LLDP, Security: Stateful Firewall, IP filtering, NAT, 802.1x, 802.11i, WPA2, WPA TripleMethodology Rogue Detection: 24x7 dual-band, dual-band WIPS sensing, on-board IDS, and secure guest access		

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EPLDT, INC. **JUAN VICTOR I. HERNANDEZ**
Firm/Dealer/Supplier/Contractor/ **PRESIDENT & CEO** : **12/22/2020**

Date _____
Bank Account Name: _____
Bank Account Number: _____
Bank Name: _____
Bank Address: _____

FUNDS AVAILABLE:
ELENA MAY T. TEOFILO
Head, Budget Office

APPROVED: **DR. ARMEE N. ROSEL**
VP, Research & Extension Services
Authorized Official

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		(hotspot) with captive portal, IPsec, and RADIUS Server, Quality of Service WMM, WMM-UAPSD, 802.1p, Diffserv, and TOS, Radio Specifications: Wireless Medium Direct Sequence Spread Spectrum (DSSS), Orthogonal Frequency Division Multiplexing (OFDM), and Spatial Multiplexing (MIMO), Network Standards IEEE 802.11a/b/g/n/ac, 802.11d and 802.11i WPA2, WMM, and WMM-UAPSD, L2TPv3, Client VPN, MESH (released in a future version of WiNG), Captive Portal server, Support SNMP v1, v2c, v3 Data Rates Supported: 802.11b/g: 1,2,5.5,11,6,9,12,18,24,36,48 and 54 Mbps; 802.11a: 6,9,12,18,24,36,48, and 54 Mbps; 802.11n: MCS 0-15 up to 300 Mbps; 802.11ac on 2G VHT MCS0-9 up to 400Mbps, 802.11ac on 5G: VHT MCS, 0-9 up to 867 Mbps, Operating Channels* 2.4 GHz band: channel 1 through channel 13, 5 GHz band: channel 36 through channel 165, Antenna Configuration 2X2 MIMO (transmit/receive on both antennas). Transmit power adjustment 1dB increment, Operating Frequencies 2412 to 2472 MHz, 5180 to 5825 MHz, Performance and Capacity: Concurrent Users 256 per radio, SSID 8 per radio, 16 per AP, Certifications: Wi-Fi Alliance (WFA) 802.11a/b/g/n/ac, Bluetooth Bluetooth SIG listed, Regulatory, Product Safety Certifications IEC 60950-1, EN 60950-1, UL 60950-1, CSA 22.2 No.60950-1-03 AS/NZS 60950.1, RoHS Directive 2011/65/EU, Radio Approvals: FCC CFR 47 Part 15, Class B, ICES-003 Class B, FCC Subpart C 15.247, FCC Subpart E 15.407, RSS247, EN 301 893, EN 300 328, EN 301 489 1 & 17, EN 50385, EN 55032 (CISPR 32), EN 60601-1-2, AS/NZS4268 + CISPR32, Maximum Total Conducted Transmit Power One Antenna Tx, Internal Antenna (AP-7632-680B30-xx) 2.4 GHz Band: 23 dBm, 5 GHz Band: 23 dBm, BLE: 3 dBm, External Antenna (AP-7632-680B40-xx) 2.4 GHz Band: 20 dBm, 5 GHz Band: 20 dBm, BLE: 3 dBm, Maximum Total Conducted Transmit Power Two Antennas Tx,		

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EPLDT, INC. *[Signature]*
Firm/Dealer/Supplier/Contractor/ **PRINCIPAL & CEO** : *12/22/2020*

Date _____
Bank Account Name: _____
Bank Account Number: _____
Bank Name: _____
Bank Address: _____

FUNDS AVAILABLE:
[Signature]
ELENA MAY T. TEOFILO
Head, Budget Office

APPROVED: *[Signature]*
DR. ARMEE N. ROSEL
VP, Research & Extension Services
Authorized Official *[Signature]*

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		Internal Antenna (AP-7632-680B30-xx) 2.4 GHz Band: 26 dBm, 5 GHz Band: 26 dBm, BLE: 3 dBm, External Antenna (AP-7632-680B40-xx) 2.4 GHz Band: 23 dBm, 5 GHz Band: 23 dBm, BLE: 3 dBm Core Switch (1 unit) - EdgeSwitch 16 XG, Model: ES-16-XG: (12) SFP+ Ports, (4) 10G RJ45 Ports, (1) RJ45 Serial Console Port, Non-Blocking Throughput: 160 Gbps, Switching Capacity: 320 Gbps, Forwarding Rate: 238.10 Mpps, Rack Mountable with Rack-Mount Brackets (Included), DC Input Option (Redundant or Stand-Alone), Dimensions: 443 x 221 x 43 mm (17.44 x 8.70 x 1.69"), Weight Rack-Mount Brackets Included: 2.71 kg (5.97 lb), Rack-Mount Brackets Excluded: 2.62 kg (5.78 lb), Enclosure Characteristics SGCC Steel, Total Non, Blocking Throughput 160 Gbps, Switching Capacity 320 Gbps, Forwarding Rate 238.10 Mpps, Max. DC Power Consumption 36W (Excludes SFP/SFP+ Modules), Power Method AC: 100-240VAC/50-60 Hz, Universal Input, DC: DC 56W, 25 to 16V, with 2.5 mm DC Power Inline Connector, Supported Voltage Range 100 to 240VAC 25 to 16VDC, Power Supply AC/DC, Internal, 56W DC, LEDs Per Data Port Speed/Link/Activity, Networking Interfaces (12) 1/10 Gbps SFP+ Ethernet Ports, (4) 1/10 Gbps RJ45 Ethernet Ports Management, Interface (1) RJ45 Serial Port, Ethernet In/Out Band, Rackmount Yes, 1U High, ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV, Shock and Vibration ETSI300-019-1.4 Standard, Operating Temperature -5 to 40° C (23 to 104° F), Operating Humidity 5 to 95% Noncondensing, Certifications: CE, FCC, IC, Software Specifications: Core Switching Features: ANSI/TIA-1057: LLDP-Media Endpoint Discovery (MED), IEEE 802.1AB: Link Layer Discovery Protocol (LLDP), IEEE 802.1D: Spanning Tree Compatibility, IEEE 802.1S: Multiple Spanning Tree Compatibility, IEEE 802.1W: Rapid Spanning Tree Compatibility, IEEE 802.1Q: Virtual		

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EPLDT, INC. Juan Victor J. Hernandez

Firm/Dealer/Supplier/Contractor/President & CEO : 12/22/2020

Date

Bank Account Name: _____

Bank Account Number: _____

Bank Name: _____

Bank Address: _____

FUNDS AVAILABLE:

ELENA MAY T. TEOFILO

Head, Budget Office

APPROVED:

DR. ARMEE N. ROSEL

VP, Research & Extension Services

Authorized Official

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		LANs with Port-Based VLANs, IEEE 802.1p: Ethernet Priority with User Provisioning and Mapping, IEEE 802.1X: Port-Based Authentication with Guest VLAN Support, IEEE 802.3ab: 1000BASE-T, IEEE 802.3an-2006: 10GBASE-T, IEEE 802.1ak: Virtual Bridged Local Area Networks - Amendment 07: Multiple Registration Protocol, IEEE 802.3ac: VLAN Tagging, IEEE 802.3ad: Link Aggregation, IEEE 802.3x: Flow Control, IEEE 802.1D-2004: Generic Attribute Registration Protocol: Clause 12 (GARP), IEEE 802.1D-2004: Dynamic L2 multicast registration: Clause 10 (GMRP), IEEE 802.1Q-2003: Dynamic VLAN registration: Clause 11.2 (GVRP), RFC 4541: Considerations for Internet Group Management Protocol (IGMP) Snooping Switches, Advanced Layer 2 Features: Broadcast Storm Recovery, Broadcast/Multicast/Unknown Unicast Storm Recovery, DHCP Snooping, IGMP Snooping Querier, Independent VLAN Learning (IVL) Support, Jumbo Ethernet Frame Support, Port MAC Locking, Port Mirroring, Protected Ports, Static MAC Filtering, TACACS+, Voice VLANs, Unauthenticated VLAN, Internal 802.1X, Authentication Server Platform Specifications: DHCP Server, Maximum Number of Pools: 128, Maximum Number of Leases (Total): 2048, Routing, Number of Routes: 16, Number of Routing Interfaces: 15, VLANs: 4093, MAC Addresses: 16,384, MSTP Instances: 4, LAGs: 32, ACLs: 100 with 10 Rules per Port, Traffic Classes (Queues): 8, System Facilities: Event and Error Logging Facility, Run-Time and Configuration Download Capability, PING Utility, FTP/TFTP Transfers via IPv4/IPv6, Malicious Code Detection, BootP and DHCP, RFC 2021: Remote Network Monitoring Management Information Base Version 2, RFC 2030: Simple Network Time Protocol (SNTP), RFC 2819: Remote Network Monitoring Management Information Base, RFC 2865: RADIUS Client, RFC 2866: RADIUS		

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Firm/Dealer/Supplier/Contractor / **PRESIDENT & CEO** : *12/22/2020*

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[Signature]
ELENA MAY T. TEOFILO
Head, Budget Office

APPROVED:

[Signature]
DR. ARMEE N. ROSEL
VP, Research & Extension Services
Authorized Official

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		Accounting, RFC 2868: RADIUS Attributes for Tunnel Protocol Support, RFC 2869: RADIUS Extensions, RFC 3579: RADIUS Support for EAP, RFC 3580: IEEE 802.1X RADIUS Usage Guidelines, RFC 3164: BSD Syslog Protocol Management, Web UI, Industry-Standard CLI, IPv6 Management, Password Management, Autoinstall Support for Firmware Images and Configuration Files, SNMP v1, v2, and v3, SSH 1.5 and 2.0, SSL 3.0 and TLS 1.0, Telnet (Multi-Session Support), Layer 3 Routing: Static RoutingQoS, Access Control Lists (ACLs), Permit/Deny Actions for Inbound IP and Layer 2 Traffic Classification Based on: Time-Based ACL, Source/Destination IP Address, TCP/UDP Source/Destination Port, IP Protocol Type, Type of Service (ToS) or Differentiated Services (DSCP) Field, Source/Destination MAC Address, EtherType, IEEE 802.1p User Priority, VLAN ID, RFC 1858: Security Considerations for IP Fragment Filtering, Optional ACL Rule Attributes, Assign Flow to a Specific Class of Service (CoS) Queue, Redirect Matching Traffic Flows, Differentiated Services (DiffServ), Classify Traffic Based on Same Criteria as ACLs, Mark the IP DSCP or Precedence Header Fields, Optional, Police the Flow to a Specific Rate with Two-Color Aware Support, RFC 2474: Definition of the Differentiated Services Field (DS field) in the IPv4 and IPv6 Headers, RFC 2475: An Architecture for Differentiated Services, RFC 2597: Assured Forwarding Per-Hop Behavior (PHB) Group, RFC 3246: An Expedited Forwarding PHB, RFC 3260: New Terminology and Clarifications for DiffServ, Class of Service (CoS) Queue Mapping Configuration, AutoVoIP: Automatic CoS Settings for VoIP, IP DSCP-to-Queue Mapping, Configurable Interface Trust Mode (IEEE 802.1p, DSCP, or Untrusted), Interface Egress Shaping Rate, Strict Priority versus Weighted Scheduling per Queue		

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		<p>Access Switch (3 Units)- Aruba 2540 Switch Series, Product Overview- Designed for the digital workplace, the Aruba 2540 Switch Series is optimized for today's mobile and IoT needs. The switches are easy to deploy, use and manage using Aruba AirWave or Aruba Central. Aruba ClearPass offers centralized security and external captive portal support. The Aruba 2540 Switch Series provides a convenient and cost-effective wired access solution that can be quickly set up with Zero Touch Provisioning. PoE+ models deliver power across all access ports for wireless APs, security cameras, and other IoT devices. The 2540 has wire-speed backhaul bandwidth capacity with built-in 10 GbE uplinks, robust QoS, static and RIP routing, IPv6 and includes a limited lifetime warranty with no software licensing required, Key Features- Aruba Layer 2 switch series with static and RIP routing, ACLs, and robust QoS, Security and network management via Aruba ClearPass Policy Manager, Aruba AirWave and Aruba Central, Simple deployment with Zero Touch Provisioning, Convenient 10 GbE uplinks and up to 370 W PoE+, Software defined ready with REST APIs</p> <p>Network & Structured Cabling - Backbone Cabling: No termination, configuration and testing of existing fiber optic connection, Install New Fiber Cable for the Backbone of New IDF Cabinet, Installation of new cabinet in College of Science, CCJIE and RICE Building, No termination, configuration and testing of existing cables, No Cable pull-out of the old network cables, Layout of the fiber cable is through the ceiling of the pathway or walkway, No Excavation of Road or Ground, Horizontal Cabling, Complete provision for the installation of structured cabling system requirements, Supply and delivery of UTP (CAT 6) cables and accessories; Supply and installations of roughing-in materials such as PVC pipes and boxes,</p>		



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Firm/Dealer/Supplier/Contractor / **PRESIDENT & CEO : 12/22/2020**

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		materials such as PVC pipes and boxes, including all necessary supports, brackets, hangers, moldings, fittings and accessories use for horizontal distribution; Supply of labor and materials for mounting and wiring of Access Points; Installation of Access Point: No Cable pull-out of the old network cables, General Exclusion: Electrical works are not included, Network Equipment: 3 units 24-Port Gigabit Managed Switch PoE with 10G-SFP ports, 1-unit Managed Switch with 16-10G SFP ports, 6 units 10G-SFP Transceiver Module Multimode, Cabling Component: Cat.6 UTP Cable 4-pairs (15runs for 15APs), 3 pcs 24-port Cat.6 Patch Panel loaded, 3 units 1.5ft Closed Type Wall Mounted Cabinet, 3 units 1U Horizontal Cable Manager, 3 Units of UPS (1100VA capacity, 550W), Roughing-in Materials: 1 lot PVC Pipes, Flexible Hose, Moldings, Connectors, Coupling & Adapters, Pull Boxes, Utility Box, Threaded Rod, Angle Bars, Clamps, Brackets and support, Tapes, Label Sticker, Cable Ties, Velcro, Sealant, Screws, bolts & nuts, etc. -Commscope 1427071-4 305M/ CS30CM Gry C6 4/24 U/UTP RIB, Copper cable, CAT 6, 4 pair, UTP, CM rated, 24 AWG, 305m reel in box, gray -Commscope 1427632-2 Horizontal Cable Management Assembly w/ badged logo, 1U -Commscope 2105031-2 Fiber Optic Patch Cord, OM3, LC to SC Duplex, 1.8mm LSZH & OFNR, 2m, Aqua -Commscope 4-1206343-4 Fiber Optic Termination Panel, 1U, 19 in, SC/UPC, Multimode, 24 SC/UPC, Black -Commscope 6-2843007-1/MP-6AU-Plug-A-1, Modular Plug, CAT 6A/6, Unshielded, Cond insulation OD-0.99mm, 100pcs -Commscope 760237024/NPP-6-DM-1U-24, Distribution module Panel, CAT6, UTP, 1U, 24Port -Commscope FBXSCUC11 LazrSPEED 550SC to unconnectorized, Fiber Pigtail, 0.9mm Riser - SBJ	106 SFP Transceiver modules (HP J1950D) ARMB 1.5ft closed Type wall Mounted Cabinet (Intrack Cabinet)	A. FERNANDEZ A. FERNANDEZ

COMMISSION ON AUDIT TSU
RECEIVED
By: [Signature] Date: 28 DEC 2020

(Please read carefully at the back hereof)

Charge to:
ROA No. :
CONFORME & RECEIVE COPY:
JUAN VICTOR J. HERNANDEZ
Firm/Dealer/Supplier/Contractor: PRECIDENT & CEO: 12/20/2020

FUNDS AVAILABLE:
ELENA MAY T. TEOFILO
Head, Budget Office

Date:
Bank Account Name:
Bank Account Number:
Bank Name:
Bank Address:

TSU SPMU
RECEIVED
By: [Signature]
Date: 01-26-2021
Control No.: 001

APPROVED:
DR. ARMEE M. ROSEL
VP, Research & Extension Services
Authorized Official



WORK ORDER

DELIVERY DUE DATE:

Procurement Unit
Tel No.: 045-606-8142/606-8157

Supplier : **EPLDT, INC.**
Address : 5th Floor, LV Locsin Building, Ayala corner Makati Ave.
Makati City
TIN: 207-762-846-000
Tel. No. : (02) 8288-8999

Work Order No.: 2020-072
Date : 12/9/2020
JO No. : 2020-039
Date : 5/29/2020
Mode of Procurement: Public Bidding
Mode of Payment: N/30

Handwritten: Sixty (60)
~~Thirty (30)~~

SIR/MADAM:

You are hereby advised to accomplish/deliver the following job/work within ~~Thirty (30)~~ *Sixty (60)* Calendar days upon receipt of the Notice of Award as per quotation submitted by you duly approved by the TSU Committee on Bids and Awards and the President of the Agency

QTY.	UNIT	DESCRIPTION	UNIT COST	TOTAL COST
		-Commscope NPCO6UVDB-GY, NPC RJ45 Patch Cord CAT6, Unshielded, CM(PVC), Gray -APC BX1100LI-MS Back-UPS 1100VA, 230V, AVR, Universal and IEC Sockets Additional Specifications: Fiber Optic Cable backbone- 8-core FOC OM3 Armored Cable, 10GbE multi,ode, Bidder must provide Structured cabling components Twenty-Five (25) years warranty <i>Warranty and support services: 3 years warranty on parts, services and labor on network equipment, Quarterly on-site maintenance, Bidders must present a certificate that their product has an in-country depot signed by the company's authorized personnel</i> *****		

COMMISSION ON AUDIT: TSU
RECEIVED
By: *[Signature]* Date: 28 DEC 2020 Time:

(Please read carefully at the back hereof)

Charge to:
ROA No. :
CONFORME & RECEIVE COPY :
[Signature]
EPLDT, INC. JUAN VICTOR I. HERNANDEZ
Firm/Dealer/Supplier/Contractor / **PRESIDENT & CEO** : 12/22/2020
Date
Bank Account Name: _____
Bank Account Number: _____
Bank Name: _____
Bank Address: _____

FUNDS AVAILABLE:
[Signature]
ELENA MAY T. TEOFILO
Head, Budget Office

TSU - SPMU
RECEIVED
By: _____
Date: 9-25-2021 @ 10:12
Control No.: 001

APPROVED: *[Signature]*
DR. ARMEE N. ROSEL
VP, Research & Extension Services
Authorized Official *[Signature]*