



**INVITATION TO BID**  
**FOR**  
**PURCHASE AND INSTALLATION OF STRUCTURED NETWORK CABLING**  
**REQUIREMENTS FOR DPWH-ASDEO**

The Department of Public Works and Highways **Apayao 2<sup>nd</sup> District Engineering Office**, through its Bids and Awards Committee, through the **FY 2025** intends to apply the sum of **SIX MILLION SIX HUNDRED THIRTY-FOUR THOUSAND SIX HUNDRED PESOS ONLY (Php 6,634,600.00)** being the ABC to payments under the contract for **Contract ID No. 25GPC0003- PURCHASE AND INSTALLATION OF STRUCTURED NETWORK CABLING REQUIREMENTS FOR DPWH-ASDEO**.

1. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. **The DPWH-Apayao 2<sup>nd</sup> District Engineering Office** now invites bids for the above Procurement Project. Delivery of the Goods is required **SEVENTY-FIVE (75) calendar days**. Bidders should have completed, within **five (5) 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 a non-discretionary **"pass/fail"** criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.
  - a. 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 No. 5183.
4. Prospective Bidders may obtain further information from Department of Public Works and Highways **Apayao 2<sup>nd</sup> District Engineering Office** and inspect the Bidding Documents at the address given below during **8:00 AM to 5:00 PM (Monday-Friday)**.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **February 27, 2025-March 19, 2025** from the given address or 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 **TEN THOUSAND PESOS (Php 10,000.00)**. The procuring Entity shall allow the bidder to present its proof of payment for the fees in person.
6. The **DPWH-Apayao 2<sup>nd</sup> District Engineering Office** will hold a Pre-Bid Conference on **March 7, 2025, (10:00 AM)** at the **Procurement Office, DPWH-Apayao 2<sup>nd</sup> District Engineering Office, San Isidro Sur, Luna, Apayao** and/or through video conferencing or webcasting via any available video conferencing services website/applications, which shall be open to prospective bidders.



Republic of the Philippines  
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS  
**APAYAO 2<sup>ND</sup> DISTRICT ENGINEERING OFFICE**  
San Isidro Sur, Luna, Apayao, Cordillera Administrative Region



Contract ID: **25GPC0003**

Contract Name: **PURCHASE AND INSTALLATION OF STRUCTURED NETWORK CABLING REQUIREMENTS FOR DPWH-ASDEO**

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below, on or before **March 19, 2025 at 9:00 AM** Late bids shall not be accepted.
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 **March 19, 2025 at 2:00 PM** at the given address below and/or via any available video conferencing services website/applications. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. Bids shall address to:

**JERRY A. RAGOJOS**

BAC Chairperson

DPWH-Apayao 2<sup>nd</sup> DEO

San Isidro Sur, Luna, Apayao

11. The DPWH-Apayao 2<sup>nd</sup> District Engineering Office reserves the right to reject any and all bids, declare a failure bidding, or not award the contract at any time prior to contract award in accordance with Section 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

**BENJAMIN V. DOMINGO**

Head, BAC Secretariat

Procurement Unit Office, Apayao 2<sup>nd</sup> DEO

apayaosecondprocurement@yahoo.com

CP No: 09280494899

13. You may visit the following websites:

For downloading of Bidding Documents:

**DPWH Website:** February 27-March 5, 2025 ✓

**PhilGEPS Website:** February 27-March 19, 2025 ✓

Approved By:

**JERRY A. RAGOJOS**

Chief, Construction Section

Chairperson, Bids and Awards Committee ✓



**BILL OF QUANTITIES**  
Department of Public Works and Highways (DPWH)

Project ID No. 25GPC0003

**PURCHASE AND INSTALLATION OF STRUCTURED NETWORK CABLING REQUIREMENTS FOR DPWH-ASDEO**

ABC: PHP 6,634,600.00  
CONTRACT DURATION: 75CD  
Part No.: \_\_\_\_\_

Procuring Entity	Description	Quantity	Unit	Column ( 5) and (6) are to be filled up by the Bidder	Amount ( Pesos )
Pay item No.				Unit Price ( Pesos )	
1	2	3	4	5	6
<b>A. STRUCTURED CABLING COMPONENTS</b>					
1	CAT6A Shielded 24 Port Patch Panel with Shutter, Cable management System & equipped with Shielded Snap-in Connectors with Test Light Indicators	4.00	unit	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
2	Floor/Wall Mounted Cabinet 22RU with Power Strip, Fan, Cable Manager and knock out holes	1.00	unit	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
3	Patch guide for patch panel (1RU) metal	4.00	unit	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
4	F5TP/FFTP cable CAT6A AWG23 4 pairs @ 500M/roll , LSZH Outer Sheath (Fire retardant), 500Mhz Bandwidth capacity up to 100metwrs ; NVP>74%	7.00	rolls	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
5	Upgradable Duplex Face Plates with Shutters	24.00	pcs.	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
6	I/O ports (CAT6A Shielded Snap-in connector with Test Light Indicators)	41.00	pcs.	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____

7	RJ45 CAT6A Shielded connector with Test Light Indicators	7.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
8	FTP Sheilded CAT6A Patch Cord 4pair Stranded LSZH Outer Jacket ; Factory Crimped 2m Grey	10.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
9	FTP Sheilded CAT6A Patch Cord 4pair Stranded LSZH Outer Jacket ; Factory Crimped 2m Orange	10.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
10	FTP Sheilded CAT6A Patch Cord 4pair Stranded LSZH Outer Jacket ; Factory Crimped 5m Orange	48.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
11	FTP Sheilded CAT6A Patch Cord 4pair Stranded LSZH Outer Jacket ; Factory Crimped 0.15m Grey/Orange	48.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
12	FTP Sheilded CAT6A Patch Cord 4pair Stranded LSZH Outer Jacket ; Factory Crimped 0.15m Grey/Orange	48.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____

#### B.Active Components

13	<b>PABX Upgrade</b>	1.00	lot	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
	Data Infrastructure (AA36)				
	PowerCPU EE board and Mass Storage daughter board				
	<b>Voice Infrastructure (AA35))</b>				
	VoIP32 Daughter Board - 32 VoIP Channels				
	<b>OmniPCX Office software licenses (CC31)</b>				
	1 Universal Telephony License for new OXO Connect systems. Software Assurance mandatory				
	Software license migration from OmniPCX Office R8 or R9 or R10 with PowerCPU to OXO Connect R6				
	<b>Software Assurance SMB (GG15) OXO Connect software assurance for 3 years</b>				
	OXO Connect software assurance for 3 years				

IP Phones					
14	ALE-300 Dual Gigabit Ethernet Enterprise DeskPhone with Corded Handset, Dual Stack NOE-SIP, 3.5 inch 320x240 color display, HD Audio, 2 USB-C. Ships without Network cable.	7.00	units	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
15	ALE-100 Magnetic Alphabetic Keyboard QWERTY-QWERTZ or ALE 300/ALE-400/ALE-500 Enterprise DeskPhone	7.00	units	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
16	Straight Ethernet cable - RJ45/RJ45 - Length = 3 m	7.00	units	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
17	ALE-108 Wireless Module	7.00	pcs	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
18	ALE IP Phone Power Supply	7.00	pcs	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
Data Switch					
19	OS6860E-P48-US GigE L3 chassis 48 RJ-45 PoE 10/100/1G BaseT, 4 fixed SFP (1G), 4 fixed SFP+ (1G/10G) uplink/stacking ports. AC power supply. Includes country specific power cord, guides, and 19" rack mount hardware.	1.00	unit	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
20	OS6360-P48 fixed 1RU chassis 48 PoE 1G BaseT, 2 fixed RJ45/SFP combo (1G), 2 fixed 1G/10G SFP+ uplink/stacking ports. Internal AC PSU (350W budget), includes country specific power cord, guides and 19" rack mount kit.	1.00	unit	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
Access Points					
21	OMNIAccess STELLAR Indoor	7.00	units	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____



22	AP Ceiling Rail Mount Hardware : Frequency band: Dual-Band Radio (2.4 GHz and 5GHz) Data transfer rate: 5GHz: 1.3 Gbps, 2.4 GHz: 450Mbps Antenna: Dual-band and Omni-directional Internal Antenna Protocols (Standard and Security): 802.11ac,ax wired equivalent privacy (WEP) / Wi-Fi protect Access (WPA) 2 Pre-shared key (PSK), WPA2-PSK Enterprise WPA3 Virtual Local Area Network (VLAN) tagging secure guest network Functionalities: Guest Control, Load Balance, Multiple SSID Network Interface: Power over Ethernet (PoE) Multiple User (MU) Multiple-Input and Multiple-Output (MIMO) Gigabit Ethernet LAN Power: Power-over-Ethernet Software: Must Support Windows 11, 10 Operating	7.00	units	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
<b>Ancillary Materials and Services</b>					
23	Ancillary Materials and Services to Include Delivery, Installation, testing commissioning & 1(One) Year Maintenance Support + 2years Extended Warranty	1.00	lot	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
<b>Power System</b>					
24	2 KVA Online_Rack Mountable UPS	1.00	set	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
25	3 KVA Online_Rack Mountable UPS with 8 80AH External Batteries	1.00	set	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
<b>C.CIVIL, MECHANICAL &amp; ELECTRICAL SUPPLY SERVICES</b>					
26	Pull box ( 12" x 12") powdered coated	6.00	pcs	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
27	Pull box ( 10" x 10") powdered coated	10.00	pcs	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____

28	Pull box ( 8" x 8") powdered coated	10.00	pcs	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
29	PVC Electrical Junction Box (2"x2"x4")	30.00	pcs	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
30	PVC Electrical Junction Box (4"x4"x2")	30.00	pcs	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
31	Cable ladder and accessories guage 16, Powder coated with Complete Accessories	1.00	lot	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
<b>Electrical Wires - Supply &amp; Installation of Electrical wires to complete the scope</b>					
32	Electrical Wire # 10 (Red)	1.00	lot	In Words: Pesos _____ _____ _____ _____ In Figures: _____	
	Electrical Wire # 10 (Black)				
	Electrical Wire # 10 (Green)				
	Electrical Wire # 14 (Red)				
	Electrical Wire # 14 (Black)				
	Electrical Wire # 14 (Green)				
33	Main Distribution Panel (MDF) with 8 branches loaded with 1x60,2x30 & 2x20 Ampere Breakers	1.00	lot	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
	Circuit Breaker 60Amps				
	Circuit Breaker 30Amps				
	Circuit Breaker 20 Amps.				

34	Grounding rod (10 feet-copper clad) 1/2"	3.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
35	Grounding rod clamp	3.00	pcs.	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
36	Mouldings 2" & 1", FITTINGS, Nuts & Bolts Tie wire, Cable Ties, & Other Installation accessories Including Metal Thresholds	1.00	lot	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
37	2" dia. PVC with couplings and/or elbows	30.00	lengths	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
38	1 1/2" dia. PVC with couplings and/or elbows	40.00	lengths	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
39	3/4" dia. PVC with couplings and/or elbows	60.00	lengths	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____

#### D. ENGINEERING SERVICES

40	Labor per node for the installation and termination of nodes including installation of roughing-ins, cable pulling, testing and commissioning services. ( including rerouting & retermination of Existing Nodes	48.00	node	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____
41	Fluke Testing of new & Existing Nodes	150.00	node	In Words: Pesos _____ _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ _____ In Figures: _____



42	Labor for civil works that includes trenching, hand holes, and covers, Masonry Works & Painting	1.00	lot	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____
43	Mobilization/Demobilization (Includes Inter Island Logistics Cost)	1.00	lot	In Words: Pesos _____ _____ _____ In Figures: _____	In Words: Pesos _____ _____ _____ In Figures: _____

**Other Requirements:**

	<b>Compatibility :</b> The supplied hardware shall be compatible with Existing WAP controller (Ubiquiti CloudKey + UCK-G1-PLUS) for integration	
	<b>Brand and Model:</b> Must be globally recognized brand of Wireless Access Point and has been marketed in the Philippines for the last ten (10) years. It must be in the current catalog and not end-of-life. The Manufacturer's certificate is required. <b>Documentation and Media:</b> The equipment shall be supplied with the standard manufacturer documentation, on any electronic storage media and hard copy version where available.	
	<b>Training:</b> The solution provider shall provide one (1) day of comprehensive administration training for the IT Support Officers. <b>Warranty:</b> The Solution provider is required to provide a 1-year warranty on all parts and onsite labor from the date of the Inspection and Acceptance Report (IAR).	
	<b>Technical Support:</b> The local technical support through telephone or email, 8 hours per day (8:00AM-5:00PM), 5 days a week (Monday-Friday) for problem resolution. Support shall have a response time of less than four (4) hours.	
	<b>TERMS AND CONDITIONS:</b>	
	1. Conduits for the structured network cabling must be embedded/molded to the wall similar to the conduits for the electrical.	
	2. Active equipment components and accessories supplied for the communication network must be compatible with the existing DPWH communication network. All active components must have a warranty of at least three (3) years.	
	3. In lieu of utilizing cable trays for the structured network cabling, PVC pipes are mostly recommended.	
	4. Structured network cabling components must have a warranty of at least fifteen (15) years.	
	5. New equipment should be configured/ commissioned by the Supplier according to the DPWH standard network design.	
	6. Items 1-5 should be compliant with the standard technical specifications issued by IMS.	
	7. The Supplier/Contractor is required to provide a Manufacturers Certificate Directly from the Vendor authorizing the supplier/contractor to sell. To Wit: a. Switches & PABX -Manufacturers Authorization From (MAF) from Alcatel Lucent Enterprise. b. Next generation Firewall & SDWAN-Manufacturers c. ACFE Certification of Alcatel Lucent Enterprise PABX d. ACFE Certification for Alcatel Lucent Enterprise Omni Switch	

"Total Amount in Words: \_\_\_\_\_  
Project to be completed within \_\_\_\_\_ CD.

Submitted By:

\_\_\_\_\_  
( Name and Signature of the Duly Authorized Bidders Representative)

\_\_\_\_\_  
( Date)

\_\_\_\_\_  
( Position)

\_\_\_\_\_  
( Name of Bidder)