



Republic of the Philippines
DEPARTMENT OF THE INTERIOR AND LOCAL GOVERNMENT
LOCAL GOVERNANCE REGIONAL RESOURCE CENTER 1

Regional Office I
Aguila Rd., Sevilla, San Fernando City, La Union
www.region1.dilg.gov.ph

**SUPPLY, DELIVERY, INSTALLATION, TESTING, MAINTENANCE AND
COMMISSIONING OF COMPUTER NETWORK EQUIPMENT AND
STRUCTURED CABLE SYSTEM and AUDIO-VIDEO PRODUCTION SYSTEMS
EQUIPMENT**

Invitation to Bid No 2025-08-308

SUPPLEMENTAL BID BULLETIN NO. 2

This Supplemental Bid Bulletin No. 2 is hereby issued to inform all prospective bidders of the adjustment in the Terms of Reference of the Invitation to Bid No 2025-08-308.

Item #3: Aggregation Switch – TOR Forwarding Rate

The current specification indicates: 194.04 Mpps: 19.04 Mpps

Upon review, the correct forwarding rate should be: 119.04 Mpps

Item #7: Ethernet Coax Wall Plate, 2 Port Cat6 RJ45 Keystone and 1 Port F-Type Connector Coax Keystone Female to Female Wall Plate – 1U Cable Management

The Current specs indicates: 1U Cable Management is about 48.3 x 4.7 x 4.4 cm / 19 x 1.9 x 1.7 Inches, featuring 24 Slots. The Horizontal rack just requires 4 screws and nuts, simple and quick, saving time and energy

This appears to be incorrectly listed, as these details correspond to Item No. 6 1U 24-Slot Horizontal Server Rack Cable Manager.

Be informed that all the adjustments in effect through this supplemental bid bulletin will be reflected to the revised TOR attached in this document.

For queries and clarifications, please contact BAC Secretariat at 607-4469 or send an email to: dilgr1.bac@gmail.com.

For the information and guidance of all concerned.


RHODORA G. SORIANO
BAC Chairperson

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“Matino, Mahusay at Maaasahan”
Tel. Nos. (072) 888 2108 • 888 2289 • 888 2294 • 888 3106
888 7695 • 607 1245 • 607 1531 • 607 4467 to 70



www.region1.dilg.gov.ph

TERMS OF REFERENCE

**SUPPLY, DELIVERY, INSTALLATION, TESTING,
MAINTENANCE AND COMMISSIONING OF
COMPUTER NETWORK EQUIPMENT AND
STRUCTURED CABLE SYSTEM and AUDIO-
VIDEO PRODUCTION SYSTEMS EQUIPMENT**

I. BACKGROUND

The Department of the Interior and Local Government (DILG) Region I, headquartered in San Fernando City, La Union, serves as the central coordinating body for the implementation of national government policies and programs across local government units (LGUs) within the Ilocos Region. In pursuit of its mandate to promote peace and order, ensure public safety, and strengthen local governance, the Regional Office heavily relies on efficient communication and data management systems.

As part of its continuing efforts to modernize its operations and support digital governance initiatives, the DILG Regional Office recognizes the need to upgrade its existing network infrastructure and procurement of essential Audio-Video Systems Equipment for the Audio-Visual Production activities of the Region. The current (old) computer network setup must be merged with the new network to work as one.

To address these issues and support future ICT developments, the Office is undertaking the procurement and installation of a structured cabling system and procurement of essential Audio-Video Systems Equipment. The said infrastructure will provide a unified and scalable network infrastructure that ensures consistent and secure connectivity for voice, data, and video transmissions across all departments within the Regional Office, while the procured Audio-Video Systems Equipment will upscale the ability of the regional office to produce quality audio-visual presentation which includes but not limited to conduct of live production events, and online streaming activities.

The structured cabling project will involve the design, supply, installation, testing, and commissioning of a standards-compliant cabling system, tailored to the specific layout and operational needs of the DILG Region I Office in San Fernando City, La Union. While, the audio-video systems will upgrade existing audio-video equipment to cater bigger audience with the state-of-the-art audio-video systems equipment. This upgrade is expected to significantly enhance operational efficiency, improve inter-office communication, and support the department's digital transformation roadmap.

II. Objectives

The primary objectives of this project are:

1. **To upgrade the existing network infrastructure** of the DILG Regional Office I in San Fernando City, La Union through the installation of a reliable and scalable structured cabling system.
2. **To improve network performance and reliability**, minimizing downtime and connectivity issues that hinder daily operations.

3. **To support current and future ICT requirements**, including increased bandwidth demands, VoIP, video conferencing, file sharing, and centralized data systems.
4. **To standardize cabling practices** in accordance with international standards (e.g., ANSI/TIA/EIA-568) to ensure quality, efficiency, and long-term usability.
5. **To facilitate better inter-departmental communication** through high-speed wired connections and future-proof infrastructure.
6. **To acquire Audio-Visual system equipment** that meets international standards for quality, functionality, and durability, ensuring optimal communication and presentation capabilities.

III. Scope of Work

The scope of work includes, but is not limited to, the following:

1. Site Survey and Design

- Conduct a comprehensive site assessment of the DILG Region I office premises.
- Prepare a detailed structured cabling layout and implementation plan.
- Identify optimal routing paths for cables, taking into account existing electrical wiring, infrastructure, and safety protocols.

2. Supply of Materials

- Provide all necessary cabling components, including but not limited to:
 - Category 6 (Cat6) UTP cables
 - Faceplates, patch panels, keystone jacks
 - Cable trays, raceways, conduits, and mounting accessories
 - Network racks and cabinets (if required)
 - Patch cords and cable organizers
 - Labels and documentation materials

3. Installation

- Perform cable pulling, routing, and termination of data ports.
- Install raceways or conduits where necessary.
- Ensure proper labeling and documentation of all cable runs and terminations.
- Maintain a clean and professional finish at all workstation outlets and network cabinets.

4. Testing and Commissioning

- Conduct end-to-end testing of all cabling points using appropriate network testing tools.
- Certify that installed cabling meets Cat6 performance standards.
- Submit a comprehensive test report and as-built diagram.

5. Documentation and Turnover

- Provide the following upon completion:
 - As-built layout diagrams
 - Port labeling and numbering scheme
 - Inventory of materials used
 - Warranty certificates
 - Final acceptance certificate

6. Maintenance of the Structured Cabling and Network Devices

- Conduct activities at least two (2) semestral preventive maintenance within the three (3) years Warranty on Workmanship to the Structured Cabling and twenty-five (25) years product warranty of the UTP cable
- Submit preventive maintenance plan include specific dates and activities
- Submit a comprehensive preventive maintenance report conducted
- Certify the preventive maintenance conducted to be verified by RICTU

7. Delivery of Video Conferencing Equipment

- High-definition video conferencing cameras
- Speakerphones or integrated conferencing units
- PTZ (Pan-Tilt-Zoom) cameras
- Codec units or cloud-based VC system compatibility

IV. Technical Requirements

All materials and work must comply with the following standards and requirements:

- **Cable Type:** Minimum Category 6 (Cat6) UTP, 100% copper, compliant with ANSI/TIA-568 standards.
- **Testing Standards:** Fluke test or equivalent, with results submitted per cable run.
- **Patch Panels & Faceplates:** Modular, high-density, with color-coded and numbered ports.

- **Cable Management:** Proper use of raceways, trunking, and cable ties to ensure safety and aesthetics.
- **Installation Environment:** Cables must not be exposed to electromagnetic interference (EMI) and should be routed away from power lines.
- **Warranty:** Minimum 3-year warranty on workmanship (labor and installation); 3-year on networking / audio-video equipment; 25-year manufacturer's warranty on materials.

V. APPROVED BUDGET FOR THE CONTRACT

The Approved Budget for the Contract (ABC) is One Million and Three Hundred Thousand Pesos only (₱ 1,300,000.00) through the General Appropriations Act of 2025 Capital Outlay inclusive of all government taxes and charges.

VI. DELIVERABLES

The contractor/service provider shall deliver the following:

1. Structured Cabling System

- Fully installed and operational structured cabling system (minimum Cat6) that connects all identified workstations, network devices, and server/network racks.

2. As-Built Documentation

- Final cabling layout/blueprint (hard copy and digital file format).
- Port numbering scheme and cable labeling map.
- Test results per data point (e.g., Fluke test report).

3. Materials Inventory

- Complete list of materials used, and equipment delivered including brand, model, and quantity.

4. Training and Orientation

- Brief orientation for the DILG Region I ICT personnel on the cabling layout, port assignments, and troubleshooting basics.

5. Warranty Documents

- Manufacturer's warranty for all supplied hardware components.
- Service warranty for installation and workmanship (minimum one year).

6. Turnover Certificate

- Signed certificate of final acceptance by DILG Region I upon successful inspection and verification.

SUMMARY OF EQUIPMENT AND QUANTITY:

The bidder may submit original brochure as part of *technical proposal* for items below.

A) Structured Cabling Materials and Networking Equipment / Devices with Cooling

LOT	NO	PARTICULARS	QTY	UNIT
1	1	48-Port Gigabit L2 + Managed Switch with 10GE SFP+ Slots	1	unit
	2	Dual Band Wifi 6 Access Point	24	units
	3	Aggregation Switch	1	unit
	4	Wireless Controller	1	unit
	5	48 Port Cat6A Patch Panel with Inline Keystone 10G Support, Shielded STP, 1U Network Patch Panel (Cat7, Cat6, Cat6A, Cat5e compatible)	1	pc
	6	Cable Manager (Server) 19", 1U, 24 Slot Horizontal Server Rack Mount Raceway Metal	8	pcs
	7	Ethernet Coax Wall Plate (with 2 Port Cat6 RJ45 Keystone, and 1 Port F Type Connector Coax Keystone Female to Female Wall Plate)	24	units
	8	USB3.0 KVM Switch HDMI 4K @ 60Hz for 4 Computers Share to 1 Monitor	1	units
	9	Structured Cable System (1 Cat 6-I/O, 1 Cat6-WAN, 1 CCTV/Backup)	1	lot
	10	Split-type Aircon for cooling 1HP with installation	2	lot

B) Audio-Visual Production Systems Equipment

LOT	NO	PARTICULARS	QTY	UNIT
1	1	4-CH HDMI Video Switcher	1	unit
	2	4K UHD PTZ Camera 20x Zoom SDI/USB/HDMI/NDI output with AI Tracking	2	units
	3	Portable Speaker System 800W w/ Bluetooth, IPX4 Splashproof, Easy Grip with wheels	1	unit
	4	PTZ Camera Joystick Controller	1	unit

DETAILED TECHNICAL SPECIFICATIONS:

A. Structured Cabling Materials and Networking Equipment / Devices with Cooling

1. 48-Port Gigabit L2 Managed Switch

- 10G Lightning-Fast Uplink: 4× 10 Gbps SFP+ slots enable high-bandwidth connectivity and non-blocking switching capacity.
- Gigabit Speeds: 48× gigabit RJ45 ports offer high-speed and reliable connections to other switches and devices.
- Integrated into Omada SDN: Zero-Touch Provisioning (ZTP)*, Centralized Cloud Management, and Intelligent Monitoring.
- Centralized Management: Cloud access and Omada app for ultra convenience and easy management.
- Static Routing: Helps route internal traffic for more efficient use of network resources.
- Robust Security Strategies: IP-MAC-Port Binding, ACL, Port Security, DoS Defend, Storm control, DHCP Snooping, 802.1X, Radius Authentication, and more.
- Optimize Voice and Video Applications: L2/L3/L4 QoS and IGMP snooping.
- Standalone Management: Web, CLI (Console Port, Telnet, SSH), SNMP, RMON, and Dual Image bring powerful management capabilities
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written thru mobile/phone, email, and all other forms of communication from the end user
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

2. Dual Band Wifi 6 Access Point

- Dual-band WiFi 6 (802.11ax)
- 5 GHz (4×4 MU-MIMO and OFDMA) band with a 4.8 Gbps throughput rate
- 2.4 GHz (2×2 MU-MIMO and OFDMA) band with a 573.5 Mbps throughput rate
- Operates at full 4×4 MIMO with 160 MHz bandwidth
- 300+ concurrent client capacity
- Guest Traffic Isolation, which enhances wireless network security and lowers traffic congestion
- 3 years warranty on parts, labor and service

- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

3. **Aggregation Switch**

- Management Interface: Ethernet In-Band
- Networking Interface: (8) 10G SFP+ ports
- Total Non-blocking Throughput: 80 Gbps
- Switching Capacity: 160 Gbps
- Forwarding Rate: 194.04 Mpps: 19.04 Mpps
- Power Method: Universal input, 100-240V AC, 50/60Hz
- Universal input, 100–240V AC, 50/60 Hz
- Power Supply: AC/DC, internal, 36W
- Supported Voltage Range: 100–240V AC
- Max. Number of Supported SFP+ Modules UACC-OM-MM-10G: 8, UACC-OM-SM-10G: 8, UACC-CM-RJ45-10G: 4, UACC-CM-RJ45-MG: 4
- Services: SMB Layer 2 GbE switch
- LCM Display: (1) 1.3" LCM color touchscreen
- Button: Factory reset
- Ambient Operating Temperature: -5 to 40° C (23 to 104° F)
- Layer 2 Features: IGMP snooping, STP/RSTP with priorities and port-level disable, Port isolation, Storm control, Voice VLAN, Port mirroring, LACP port aggregation, Multicast/broadcast rate limiting, MAC address blocking, Flow control, 802.1X control, Jumbo frames, Proprietary loop protection, DHCP snooping/guarding, Egress rate limit, LLDP-MED, Port restricted by MAC, Device isolation with ACL
- Ambient Operating Humidity
 - 3 years warranty on parts, labor and service
 - Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

4. **Wireless Controller**

- Interface: 10/100Mbps Ethernet Port*5
- Max. Power Consumption: 100~240V AC,50/60Hz
- Management Scale: Up to 50 Aps
- Wireless Function: L3 Management, Multi-SSID, Load Balance, Band Steering, WMM, Communication protocol
- Wireless Security: SSID to VLAN Mapping, AP Isolation, SSID Isolation, Encryption
- AP Management: AP Automatic Discovery, AP Unified Configuration, AP Reboot Schedule, AP Batch Firmware Upgrade, Grouped AP management, AP LED ON/OFF, Web-based Management, DHCP Server,
- Authentication: Captive Portal Authentication, MAC Authentication

- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

5. 48 Port Cat6A Patch Panel with Inline Keystone 10G Support, Shielded STP, 1U Network Patch Panel (Cat7, Cat6, Cat6A, Cat5e compatible)

- 48 keystone slots—supports Cat6A, Cat6, Cat5e, or Cat7 keystone modules for 10 Gbps Ethernet
- STP (shielded) design and gold-plated RJ-45 contacts help reduce interference and maintain high speeds (10 Gbps)
- Each slot uses a removable coupler—easy to replace individual ports or switch keystones (e.g., VGA, fiber)
- Steel, detachable cable management bar helps organize and stabilize cables
- Standard 19" width, 1U (1.75") height—fits typical server racks
- Tool-less setup: no punch-down needed—saves ~80% installation time (~10 minutes)

6. 19 Inch Cable Manager 1U 24 Slot Horizontal Server Rack Mount Cable Management Organizer Raceway Metal

- 8 pieces of rack cable managers, coming with more than 32 screws
- 1u cable management is about 48.3 x 4.7 x 4.4 cm/ 19 x 1.9 x 1.7 inches, featuring 24 slots
- made of quality metal material, rack wire management
- the horizontal rack just requires 4 screws and nuts, simple and quick, saving time and energy

7. Ethernet Coax Wall Plate, 2 Port Cat6 RJ45 Keystone and 1 Port F-Type Connector Coax Keystone Female to Female Wall Plate

- Compliance with the TIA/EIA 568-C.2 standard
- suitable for cables with RJ45 connectors such as Cat7, Cat6 Cat5e, Cat5 patch cords. Coax F Type keystone
- Standard size: 4.50 inch height x 2.76 inch length
- Removable Coax Keystone jack and Cat 6 keystone jack

8. KVM Switch HDMI 4K@60Hz for 4 Computers Share 1 Monitor

- KVM Switch HDMI supports 4 computers to share 1 monitor and is controlled by 1 set of keyboard and mouse.
- The maximum resolution supported by 4 Port KVM Switch is 3840x2160@60Hz , compatible with lower resolutions such as

3840x2160@30Hz , 1080p, etc. Adaptive EDID can identify multiple display devices

- KVM Switch with 3 USB 3.0 ports supports 4 computers to share USB devices
- 4 Computer KVM Switch package contains 1 HDMI cable, 4 USB3.0 cables, 1 power cable
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written thru mobile/phone, email, or any other forms of communication from the end user

9. Structured Cable System (1 Cat 6-I/O, 1 Cat6-WAN, 1 CCTV/Backup)

- Cat 6 Unshielded Twisted Pair (UTP) Cable shall be primarily use for distribution that will run through from IDF to Switches and Routers
- 3 sets of cable in one hose (One (1) Cat6 for – Input / Output Device, 1 Cat6 – Wifi Access Points, and One (1) for CCTV/Backup
- Specifications:
 - Type: Outdoor UTP CAT6
 - Conductor: 99.97% Oxygen-Free Copper
 - Conductor Size: 0.53 mm ± 0.02 mm
 - Wire Gauge: 24 AWG
 - Insulation Material: HDPE
 - Insulation Diameter: 0.95 mm ± 0.06 mm
 - Outer Sheath: Black MDPE, waterproof rated
 - Outer Diameter: 6.8 mm ± 0.4 mm
- Should adhere to standards like ANSI/TIA-568 and ISO/IEC 11801
- Ethernet Coax Wall Plate, 2 Port Cat6 RJ45 Keystone and 1 Port F-Type Connector Coax
- Must be clean
- 3 years workmanship, 25 years warranty on the structured cabling, Cat 6 UTP.
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written thru mobile/phone, email, or any other forms of communication from the end user

B) Audio-Visual Production Systems Equipment

1. 4 Channel HDMI Video Switcher

- 10.1inch FHD IPS LCD display
- 4×HDMI inputs, support auto-detected
- 2×HDMI PGM output, 1×HDMI multiview out, 1×USB type-C output
- RTMP/SRT stream & USB disk/ SD card record
- AUX output configurable and assignable
- USB for capturing and streaming on PC
- Upstream key: Luma key, Chroma key, PIP×2/ POP
- Downstream key and LOGO overlay

- T-bar/ Auto/ Cut transitions; various effects: WIPE(11×3patterns) / MIX/ DIP
- Audio mixer: 4×HDMI embedded audio and 2-Ch MIC/line in; audio delay available
- Media library: 39 default patterns, 16 imported images, 16 captured images, 2 color generators
- Customer configuration import and export
- FTB/ MUTE/ STILL/ GPIO for tally
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

2. 4K UHD PTZ Camera 20x Zoom SDI/USB/HDMI/NDI output with AI Tracking

- Optical Zoom: 20x
- Signal system: 3840×2160P30/25, 1080P60/50/30/25, 1080I60/50, 720P60/50
- Sensor: 1/2.5 inch HQ CMOS sensor, 8 mapepixels
- Scanning mode: progressive
- Digital zoom: 12x
- Minimum illumination: Support ultra-low illumination : 0.1Lux@F1.6(color), 0.01Lux@F1.6 (b&w)
- Shutter speed: 1/30s ~ 1/10000s
- White balance: Indoor/Outdoor/Auto/Manual
- BLC: Yes
- DNR: 2D&3D DNR
- SNR: ≥52dB
- Horizontal Fov: 2.9° (N) –58° (W)
- Pan rotation: ±170°
- Tilt rotation -30° ~ +90°
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

3. Portable Speaker System 800W w/ Bluetooth, IPX4 Splashproof, Easy Grip with wheels

- 800W RMS of powerful Sound
- Dynamic, colorful, customizable lightshow
- IPX4 splashproof
- Pair your speakers for even bigger sound
- Easy-to-grip handle and robust wheels
- Guitar and mic inputs
- 3 years warranty on parts, labor and service

- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

4. PTZ Camera Joystick Controller

- Pan/Tilt/Zoom/Lock PTZ Controls
- NDI, IP & Serial Communication
- Control up to 7 Serial Cameras
- Control up to 100 NDI, IP Cameras
- VISCA/VISCA-over-IP / Pelco - P & D Support
- Power-over-Ethernet (PoE) Support
- Simultaneous Multi-Brand Camera Control
- 12 VDC Power Supply Included
- 3 years warranty on parts, labor and service
- Supplier shall respond within 24 hours to provide technical assistance/support upon verbal/written or thru mobile/phone, email, or any other forms of communication from the end user

Distribution of Nodes

Location	I/O	WAN	CCTV/Backup
Bldg. A, (old), 1 st Floor & 2 nd Floor	15	15	15
Bldg. B, (new), 2 nd Floor	5	5	5
Bldg. B, (new), 3 rd Floor	4	4	4
TOTAL	24	24	24

VII. Timelines

The following schedule shall be observed unless otherwise adjusted by mutual agreement:

Activity	Duration/Deadline
Site Survey and Design Proposal	During publishing period and 4 days before closing
Final Consultation and Approval of the Design Approval	Within 10 calendar days from receipt of NTP
Delivery of Materials, Installation and Testing (Structured Cabling)	Within 21 calendar days from design proposal approval
Submission of Final Documentation	Within 7 calendar days after final testing
Final Inspection and Acceptance	Within 7 calendar days after submission
Delivery of Equipment (Audio-Video Production Systems)	Within 45 calendar days from receipt of NTP

Total Estimated Project Duration: 45 calendar days from Notice to Proceed (NTP).

VIII. Requirements of the Supplier / Bidders Qualification

1. Shall shoulder all damages and will take sole responsibilities against all liabilities and damages arising from injuries or disabilities to person, or damages to property occasioned by any or omission of the contractor, including any and all legal expenses or otherwise.
2. Shall be held solely responsible for any property or personal damages or claims including damages to existing structures, systems, equipment and/or site caused by the bidder shall repair or replace it to its original condition at no additional cost to the DILG R1.
3. Should have been operating in the Philippines for two years and is registered with Securities and Exchange Commission or Department of Trade and Industry.
4. Is fully committed to undertake this engagement in accordance with scope of work define and any instructions issued by DILG R1, where necessary.

IX. DELIVERY AND IMPLEMENTATION

1. The winning bidder shall submit Project Management Plan Ten (10) calendar days upon receipt of Notice to Proceed for the implementation of the proposed solution that is subject for review and approval of the DILG R1.

2. Supply, Delivery, Installation, Testing and Commissioning shall be within Forty-five (45) calendar days from the approval of the Project Management Plan.
3. The winning bidder shall certify authenticity of the equipment, devices, and materials delivered / installed.

X. OTHER REQUIREMENTS

A. MAINTENANCE, SUPPORT AND WARRANTY

1. The Contractor shall guarantee that the entire structured cabling and networks are free from all defective workmanship and materials, and will remain so for the period of:
 - 25 Years of Product Warranty from the Cabling Manufacturer
 - Minimum three (3) Years Warranty on Workmanship
2. The Supplier shall conduct at least two (2) semestral maintenance services within the three (3) years Warranty on Workmanship to the Structured Cabling
3. All Structured Cabling Materials, Network Equipment shall adopt the warranty clauses of each item stipulated in the **Section V. Technical Specifications**.
4. The Bidder shall provide technical support via telephone/fax, email or other forms of communication, on-site assistance to resolve technical and other related problems within twenty-four (24) hours.
5. The supplier shall resolve the problem reported within twenty-four (24) hours after it was reported by DILG R1 RICTU in any available and fastest means of communications. The problem must be resolved and reported via writing wherein the reported problem is resolved and acknowledged satisfactorily by the end-user DILG R1 RICTU.
6. Within the Warranty on Workmanship period, equipment / devices that cannot be repaired within forty-eight (48) hours shall be immediately replaced with a service unit of similar specifications or better.

B. REMOVAL OF DEFECTIVE UNAUTHORIZED WORK

1. Any defective work, whether the result of poor workmanship, defective materials, damaged through carelessness or any other cause, found to exist prior to acceptance, shall be removed immediately and replaced by work and material which shall conform to the approved specifications, or

shall be otherwise remedied in an acceptable manner. This clause shall have full effect regardless of the fact that the work may have been done with the approval of DILG R1 RICTU or its representative.

XI. INSPECTION, TESTING, AND ACCEPTANCE

A. TESTING

1. All cables and termination hardware shall be 100% tested for defects in installation and to verify cable performance under installed conditions. Any defect in the cabling system installation including but not limited to cable, connectors, patch panels, and connector blocks shall be repaired or replaced in order to ensure 100% useable conductors in all cables installed.
2. Submit the corresponding reports of the testing conducted.

B. ACCEPTANCE

1. A certificate of acceptance for any of the bid items shall be issued only by DILG R1 only after completion of the scope of work and compliance to all the requirements.