

Section VII. Technical Specifications

PROCUREMENT OF ICT SUPPLIES, DEVICES, EQUIPMENT AND SERVICES – LOT 1 NETWORK INFRASTRUCTURE (STRUCTURED CABLING)

The bidders/supplier must be able to complete and deliver the goods and services within the period stated hereunder:

DESCRIPTION	STATEMENT OF COMPLIANCE
<p>I. SCOPE OF WORKS</p> <p>1.1 <i>The CONTRACTOR shall submit a detailed workplan for the entire project within five (5) working days from receipt of Purchase Order, subject to the approval of the DepEd Biliran. The workplan shall include the following:</i></p> <p style="padding-left: 40px;">1.1.1 <i>Equipment delivery schedule of the active and passive components</i></p> <p style="padding-left: 40px;">1.1.2 <i>Equipment installation schedule</i></p> <p style="padding-left: 40px;">1.1.3 <i>Testing, acceptance and commissioning schedule of Data Cable Runs and Equipment.</i></p> <p>1.2 STRUCTURED CABLING SYSTEM</p> <p>1.2.1 <i>The CONTRACTOR shall supply, install, and make operational one lot ISO 11801-compliant structured Cabling system for sixty five (65) nodes with the following specifications:</i></p> <p style="padding-left: 40px;">1.2.1.1 <i>The manufacturers of their offered Structured Cabling System products are certified with any of the various internationally recognized, industry-related certifications authority (UL-ISO Standard).</i></p> <p style="padding-left: 40px;">1.2.1.2 <i>The distribution/data cabinet shall be able to accommodate the required patch panels, cable managers, and network switches. Otherwise, the contractor shall provide additional distribution/data cabinet/s.</i></p> <p style="padding-left: 40px;">1.2.1.3 <i>The equipment cabinets shall have provisions for adequate air ventilation. They shall be provided with ventilation fans connected to a PDU with on off switch.</i></p> <p style="padding-left: 40px;">1.2.1.4 <i>The cablings shall be labeled and color-coded in accordance with ANSI/TIA/EIA-606-A (Administration Standard for the Telecommunications Infrastructure of Commercial Buildings).</i></p> <p style="padding-left: 40px;">1.2.1.5 <i>The patch cords from the patch panel to the network switch and from the data terminal outlet to the workstation, access point, or router shall pass Category 6 or 6E Specifications and factory crimped.</i></p> <p style="padding-left: 40px;">1.2.1.6 <i>The Structured Data Cabling shall be installed as specified:</i></p> <p style="padding-left: 80px;">2.2.1.7.1 <i>Installation of Cat 6 or 6e UTP for LAN requirement;</i></p>	

- 2.2.1.7.2 Supply and installation of Cat 6 or 6e information outlet to personal computers shall be installed with either 1-gang or 2-gang convenience outlet.
- 2.2.1.7.3 Complete works for conduit installation including support and hangers;
- 2.2.1.7.4 Supply and installation of required distribution or data cabinet, Cat 6 or 6e patch panels, cable managers, and network switches.
- 2.2.1.7.5 End to end testing of horizontal and backbone cabling;
- 2.2.1.7.6 Documentation of the end to end testing;
- 2.2.1.7.7 Complete restoration of all affected areas;
- 2.2.1.7.8 Testing and commissioning of the cabling system;
- 2.2.1.7.9 Documentation and acceptance of the project.
- 2.2.1.7.10 Working time must be after office hours, and whole day during Saturdays.

2.2.2 The CONTRACTOR shall conduct test in the presence of DepEd Biliran ICT staff on all data cable runs and submit the result to the said office in accordance with the submitted schedule in Section 2.1.3. Test results shall also indicate the date when the first test was conducted and the succeeding test/re-tests thereafter made on the equipment.

2.3 DOCUMENTATION REQUIREMENTS

The CONTRACTOR shall submit the following project documentations within seven (7) days after the completion of the project:

- 2.3.1 "As built" Structured Cabling System documentation.
- 2.3.2 Data port assignments documentation.

III. WARRANTY REQUIREMENTS AND SERVICE LEVEL AGREEMENT

- 3.1 Five (5) years performance warranty on cables and other passive components;
- 3.2 One (1) year warranty on active equipment
- 3.3 Repair or replacement of any failed component should be carried out within two (2) calendar days after it was reported by the DepEd Biliran.

IV. CONTRACTOR/BIDDER REQUIREMENTS

- 4.1 Office in Biliran-Leyte Area
- 4.2 Mikrotik Certified Traffic Control Engineer (MTCTCE)
- 4.3 Mikrotik Certified Security Engineer (MTSCE)
- 4.4 NTC Value-Added-Service Provider Registration