



**INTERNATIONAL INDIAN SCHOOL - DAMMAM**

**NETWORK INFRASTRUCTURE UPGRADE  
PROJECT - UNITY AND VISION CAMPUSES**

# REQUEST FOR QUOTATION (RFQ)

Reference No:

**Project Title: Network Infrastructure Modernization**

**(Active & Passive)**

**Location – IIS Vision and Unity Campuses**

**Issue Date: March 10, 2026**

## 1.0 PROJECT OVERVIEW AND OBJECTIVE

The objective of this Request for Quotation (RFQ) is to solicit proposals from qualified Tier-1 Network System Integrators (hereinafter referred to as "The Contractor") for the comprehensive **design, supply, installation, configuration, documentation and commissioning of a network infrastructure** to support implementation of SMART Boards in all Classrooms in Unity and Vision Campuses of IIS Damman.

The scope encompasses both Passive Structured Cabling (Copper & Fiber) and Active Networking Equipment. The contractor shall provide a fully integrated network solution consisting of structured cabling infrastructure, network switching equipment, and all related accessories required to support the project's IT and communication services.

Vendor to perform any site visits needed to collect any information.

## 2.0 COMPREHENSIVE SCOPE OF WORK (SOW)

The Contractor shall provide all specialized labor, materials, equipment, transportation, and technical supervision necessary to execute the following:

The scope includes:

- Passive structured cabling system (copper and fiber)
- Active network equipment
- Network installation and integration
- Testing and commissioning
- Documentation and handover

## **2.1 Material Procurement & Supply**

All components must be factory-new, genuine, and original equipment manufacturer (OEM) certified including but not limited to :

### **A. Copper Cabling Components**

Category 6 Ethernet Cables  
RJ45 Passthrough Connectors  
Faceplates and outlet boxes

### **B. Fiber Optic Components**

Multi-mode fiber optic cables  
Fiber optic patch panels  
Fiber connectors  
Fiber pigtails  
Fiber optic patch cords  
Splice trays and fiber enclosures

### **C. Cable Management and Infrastructure**

Network cabinets  
Conduits and trunking  
Velcro and cable ties

### **D. Active Network Equipment**

The contractor shall supply all required active networking equipment including:

### **E. Network Switching**

Core switches  
Edge Switches

### **F. Optical Interfaces**

SFP+ modules

### **G. Accessories**

Power cords and adapters

All equipment shall be new, genuine, and supported by manufacturer warranty.

## **2.2 Cable Pulling and Installation**

The contractor shall install all copper and fiber cables throughout the facility using approved cable pathways including:

- Conduits
- Trunking
- Ceiling spaces

**Installation shall follow structured cabling best practices including:**

- Proper bend radius
- Controlled pulling tension
- Separation from electrical power cables
- Proper cable support and routing

Copper cable permanent link length shall not exceed 80 meters.

Fiber optic backbone cables shall be installed between:

- Main Distribution Frame (MDF)
- Intermediate Distribution Frames (IDF)

## **2.3 Cable Termination**

The contractor shall terminate all installed cables.

### **2.3.1 Copper Termination**

Copper cables shall be terminated at:

#### **Work Area**

- Direct RJ45 termination

#### **Telecommunication Rooms**

- Direct RJ45 termination

Termination shall follow TIA/EIA-568 B wiring standard consistently across the project.

### **2.3.2 Fiber Optic Termination**

Fiber optic cables shall be terminated using:

- Fusion splicing
- Pre-terminated connectors (if applicable)

Fiber cables shall terminate in:

- Fiber optic patch panels
- Fiber distribution frames

Proper fiber management and protection shall be implemented.

### **2.3.4 Installation of Active Network Equipment**

**The contractor shall install all network equipment including:**

- Mounting switches in racks
- Installing fiber modules and SFPs
- Connecting uplink and backbone links
- Connecting switches to Class Room Cables

All equipment shall be installed following manufacturer best practices.

### **2.3.5 Network Configuration**

**The contractor shall configure all active network equipment including:**

#### **Basic Configuration**

- Device hostnames
- Management IP addresses
- Administrative access configuration

#### **Network Configuration**

- VLAN configuration - (If required)
- Access ports and trunk ports (If required)

**Configuration shall follow the approved network architecture design.**

### **2.3.6 Labeling and Identification**

The contractor shall implement a comprehensive labeling system in accordance with TIA-606 administration standards.

#### **Labeling shall include:**

- Copper cables at both ends
- Fiber cables at both ends
- Patch panels
- Switch ports
- Fiber panels
- Network racks and cabinets

#### **All labels shall be:**

- Machine printed
- Permanent and durable
- Clearly visible

**A labeling scheme shall be submitted for consultant approval prior to installation.**

### **2.3.7 Cable Management**

Proper cable management shall be implemented including:

- Velcro cable ties
- Organized cable dressing inside racks

Cables shall be installed neatly to support easy maintenance and future expansion.

### **2.3.8 Testing and Certification**

All installed cabling shall undergo comprehensive testing.

### **2.3.8.1 Copper Cable Testing**

Copper cabling shall be tested using an approved cable analyzer (e.g., Fluke).

Testing shall include:

- Wire map
- Cable length

Testing shall follow TIA Permanent Link standards.

### **2.3.8.2 Fiber Optic Testing**

Fiber optic cables shall be tested using:

- Optical Loss Test Set (OLTS)
- Optical Time Domain Reflectometer (OTDR)

**Testing shall verify:**

- Fiber continuity
- Link attenuation
- Connector performance

### **2.3.8.3 Network Testing**

The contractor shall perform network functionality testing including:

- Switch port verification
- VLAN connectivity testing
- Fiber uplink verification
- End-to-end network connectivity tests

### **2.3.9 Commissioning**

Upon completion of installation and testing, the contractor shall perform commissioning including:

- End-to-end network verification
- Patch panel and switch port verification
- Fiber backbone connectivity validation
- Network performance checks

The contractor shall coordinate with the client IT team and consultant for final acceptance testing.

## **3.0 Documentation Requirements**

The contractor shall provide the following documentation.

### **3.1 Pre-Installation Submittals**

- Material datasheets
- Equipment technical specifications
- Manufacturer certifications
- Network topology diagram

- Cable routing plans
- Labeling scheme

### **3.2 Post-Installation Documentation**

Upon project completion, the contractor shall submit:

- As-built drawings
- Rack elevation diagrams
- Cable routing diagrams
- Fiber backbone diagrams
- Port mapping documentation
- Cable test reports
- Network configuration backup files
- Commissioning reports
- Warranty certificates

All documents shall be submitted in editable format and PDF format.

### **4.0 Warranty**

The contractor shall provide:

- 10 years manufacturer warranty for structured cabling system
- Manufacturer warranty for active network equipment
- Support for system performance compliance

### **5.0 Quality Assurance**

The contractor shall ensure:

- Installation performed by certified technicians
- Compliance with manufacturer installation guidelines
- Professional workmanship
- Proper cable routing and equipment installation

### **6.0 Health and Safety**

All work shall comply with project Health, Safety, and Environmental (HSE) requirements including:

- Safe installation procedures
- Proper use of installation tools
- Clean work areas during and after installation

## 7.0 Project Deliverables

Upon completion of the project, the contractor shall deliver:

- Fully installed passive cabling infrastructure
- Operational active network equipment
- Certified copper and fiber links
- Configured and tested network system
- Complete documentation package
- Warranty certificates

## 8.0 BIDDER INSTRUCTIONS AND FINANCIALS

### 8.1 Evaluation Criteria

Proposals will be evaluated on a 60/40 Technical vs. Financial split. Bidders must demonstrate:

- OEM partnership status (Active/Passive brands).
- Personnel certifications (RCDD or equivalent preferred).
- Project experience with similar institutional/educational environments.

### 8.2 Fixed-Price Quotation (BOQ Template) – Price Breakdown is Mandatory

Item	Description	Qty	Unit	Unit Rate (SAR)	Total (SAR)
<b>IISD VISION CAMPUS</b>					
1	Passive Materials (Cat6, Fiber, Panels) <b>* Detailed BOQ be provided along with offer</b>	Lot	1		
2	Active Hardware (Core/Edge Switches, SFPs) <b>* Detailed BOQ be provided along with offer</b>	Lot	1		
3	Installation, Testing and Commissioning	Job	1		
<b>IISD UNITY CAMPUS</b>					
1	Passive Materials (Cat6, Fiber, Panels) <b>* Detailed BOQ be provided along with offer</b>	Lot	1		
2	Active Hardware (Core/Edge Switches, SFPs) <b>* Detailed BOQ be provided along with offer</b>	Lot	1		
3	Installation, Testing and Commissioning	Job	1		
<b>TOTAL FOR BOTH CAMPUSES</b>					
<b>VAT (15%)</b>					
<b>GRAND TOTAL PRICE (SAR)</b>					<b>[Total]</b>

## 9.0 WARRANTY AND SERVICE LEVEL

- Passive Components: 10-year System Performance Warranty.
- Active Equipment: Standard Manufacturer Limited Lifetime Warranty.
- Maintenance: 12-month defect liability period (DLP) covering all workmanship and configuration errors.