PHILIPPINE CHILDREN'S MEDICAL CENTER
Quezon Avenue, Quezon City
ALTERNTATIVE MODE

REQUEST FOR QUOTATION
No. RFQ-2024-592

Date : _____
Name of Supplier : _____
Address : _____
Telephone No. : _____

Please quote your lowest price as per specifications per item listed below thru :
Alternative Mode of Procurement - (Negotiated Procurement - Small Value) on or before October 14, 2024 .

Please **fax your quotation at 8588-9997** or email at **pcmcproc@gmail.com** / Attention: **Ms. Lovely M. Algodon**

PCMC REQUIREMENT				OFFER TO COMPLY WITH THE REQUIREMENTS
Item No.	QTY	UNIT	Item Description	
1	1	lot	**Supply, Delivery, Installation, Termination, Testing and Commisioning Fiber Optic Cabling and LAN Switches for MISD, Brain and Spine Center, 8-Storey Building, and Pediatric Cancer Center (Conforme to the attached Terms of Reference)**	
			ABC per unit : **950,000.00**	**UNIT COST :**
			Total ABC : **950,000.00**	**TOTAL COST :**
			Technical Specifications:	
			I. PASSIVE COMPONENTS	
			A. Specifications of the Main Equipment	
	1,500	lms	**1. Fiber Optic Cable**	
			Fiber Count: 12 cores	
			Fiber Type: Single-mode	
			Fiber Size: 9/125 µm (core/cladding diameter)	
			Fiber Material: OS2 (G.652.D) compliant	
			Cable Type: Outdoor	
			Jacket Material: UV-resistant, water-blocking material	
	4	sets	**2. 19" Fiber Optic Patch Panel**	
			Panel Type: 19" Fiber Optic Patch Panel	
			Port Count: Varies (e.g., 24, 48, 72, etc.)	
			Port Type: SC (Subscriber Connector) simplex or duplex	
			Fiber Type: Single-mode	
			Fiber Size: 9/125 µm (core/cladding diameter) for single-mode	
	10	pcs	**3. Duplex adaptor cord 1st end LC Duplex, 2nd LC Duplex**	
			Cord Type: Duplex Adaptor Cord	
			Connector Type: LC Duplex (both ends)	
			Fiber Type: G9/125 OS2 (Single-mode)	
			Fiber Size: 9/125 µm (core/cladding diameter)	
			Cable Length: 1.0 meter (custom lengths available)	
	3	units	**4. Layer 2 Switches**	
			General Specifications:	
			Switch Type: Layer 2 Managed Switch	
			Number of Ports: 24 Gigabit Ethernet Ports + 4 SFP ports	
			Port Type: RJ-45, 10/100/1000Mbps, Auto-negotiation, and Auto-MDI/MDIX	
			Performance Specifications:	
			Switching Capacity: Varies (e.g., 128 Gbps, 256 Gbps) non-blocking	
			Forwarding Rate: Varies (e.g., 95 Mpps, 130 Mpps) for 64-byte packets	
			Packet Buffer Memory: Varies (e.g., 4 MB, 8 MB) shared among all ports	
			Layer 2 Features:	
			VLAN: Supports up to 4,096 VLANs (IEEE 802.1Q)	
			Spanning Tree: Supports IEEE 802.1D, 802.1w, and 802.1s	
			Link Aggregation: Supports IEEE 802.3ad (LACP)	
			Port Mirroring: Supports one-to-one, many-to-one, and flow-based mirroring	
			IGMP Snooping: Supports IGMP v1, v2, and v3	
			Static MAC: Supports up to 256 static MAC addresses	

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				Security Features:	
				Access Control: Supports IEEE 802.1X, MAC-based, and IP-based access control	
				Port Security: Supports up to 256 MAC addresses per port	
				Storm Control: Supports broadcast, multicast, and unknown unicast storm control	
				RADIUS and TACACS+: Supports authentication, authorization, and accounting (AAA)	
				Management and Monitoring:	
				Management Interface: Supports Web-based management, CLI, and SNMP v1, v2c, and v3	
				SNMP: Supports MIB-II, Bridge MIB, and RMON MIB	
				Syslog: Supports syslog logging and alerting	
				RMON: Supports RMON v1 and v2	
	6	units	**5.**	**Optical Tranceiver Module**	
				Connector 1: LC Duplex	
				Connector 2: LC Duplex	
				Fiber Type: Multimode	
				Fiber Standard: OM3	
				Length: 2.0 meters	
	4	units	**6.**	**7ft Closed Type Network Cabinet**	
				Cabinet Specifications:	
				Type: Closed type network cabinet	
				Height: 7 feet (84 inches or 2134 mm)	
				Width: 23.6 inches (600 mm)	
				Depth: 39.4 inches (1000 mm)	
				Material: Steel with a powder-coated finish	
				Color: Black	
				Weight: Approximately 150-200 pounds (68-91 kg)	
				Side Wire Manager Specifications:	
				Type: Vertical cable management system	
				Material: Steel with a powder-coated finish	
				Width: 2-3 inches (50-75 mm)	
				Depth: 1-2 inches (25-50 mm)	
				Cable capacity: Up to 100-200 cables	
				PDU (Power Distribution Unit) Specifications:	
				Type: Rack-mountable PDU	
				Power rating: 16-32 amps	
				Voltage: 240V AC	
				Outlet quantity: 8-24 outlets	
				Monitoring: Optional remote monitoring and control capabilities	
				Cooling Specifications:	
				Type: Passive cooling system (natural convection)	
				Airflow: Front-to-rear airflow design	
				Fans: Optional fan trays for active cooling	
				Security Specifications:	
				Locking mechanism: Keyed or combination lock	
				Door type: Hinged door with a 180-degree opening angle	
				Door material: Steel with a powder-coated finish	

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Item No.	**QTY**	**UNIT**	**Item Description**	
	1	lot	**7. Labor and Engineering Services**	
			Project Management, Installation Cost, Testing & Commissioning, Safety — 1 Lot	
			Roughing Ins & Conducting	
			Ground and Bonding	
			Labeling and As-Built Plans	
			Pulling & Re-harnessing of Existing Cable and Cabinet 1 Lot to new IDF cabinet	
			II. SAFETY REQUIREMENTS	
			1. Compliance with Philippine Standards from DTI, DOLE, and	
			2. Electrical safety standards	
			3. Fire safety standards	
			4. General safety and labeling	
			5. Occupational safety and health standards	
			III. SCOPE OF WORK	
			1. Physical Connectivity: Design and implement physical pathways, such as conduits to establish temporary direct connections between the buildings.	
			IV. OTHERS	
			1. Structured cabling implementation for hospital infrastructure: Adhere to international standards, use high-quality, green-compliant materials, ensure proper installation & testing, and prioritize energy efficiency & recyclability. Design and implement the system to meet the unique demands of a hospital environment, such as high bandwidth requirements, electromagnetic interference (EMI) concerns, and 24/7 operation.	
			V. WARRANTY	
			1. The structured cabling system, encompassing cables, connectors, patch panels, and associated hardware, is covered by a 20-year warranty. Workmanship related to the installation and setup is guaranteed for a period of 3 years. Warranty on devices is 3 years.	
			VI. Requirement Delivery Period:	*Please indicate below your delivery period in number of days.*
			30 Working Days	

PCMC has the right to reject any or all bids without offering any reason, waive any required formality and award the contract to any bidder whose proposals as evaluated by PCMC is the most advantageous to the government.

Contractor's Qualification

» The Contractor must have at least ten (10) years of experience in the supply, delivery, installation, testing, and commissioning of network equipment and structured cabling systems
» The Contractor must have its own test equipment and fiber optic fusion machine and must attach proof of ownership.
» Must provide the following certifications:
  - Must be authorized resellers of all equipment to be supported by a certificate issued by the manufacturer/distributor of equipment/materials.
  - Must be capable of rendering local technical services duly certified by the manufacturer/distributor.
  - Must have at least one (1) Certified Engineer who is currently employed in the contractor's company trained and certified in the design and installation of cabling systems. Must attach certification.
  - Shall conduct a site survey & submit a certificate of site survey.
» All prospective contractors shall submit original copy of design proposal, brochures and other publications that support compliance to the requirements.
» Proposed Work Plan and Detailed Implementation Schedule for the Project covering the whole period. Prospective contractors are required to conduct site inspections. The timeframe should be specified for each activity to be done and shall include Gantt Chart Summary.

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Item No.	**QTY**	**UNIT**	**Item Description**	

PhilGEPS Ref # 11328728

10-7-2024

Documentary Requirements

- Mayor's/Business Permit
- PhilGEPS Reg. Number
- Income / Business Tax Return (For ABC's above Php500,000.00)
- Omnibus Sworn Statement (For ABC's above Php50,000.00) [Use of the Form provided is required]

Posting of Warranty Security:

- The obligation for the warranty shall be covered by retention money in an amount equivalent to at least five percent (5%) of the Contract Price deductible to final payment.
- The said amount shall only be released after the lapse of the warranty period specified above; provided, however, that the Supplies delivered are free from patent and latent defects and all the conditions imposed under this Contract have been fully met.

_____
Signature over Printed Name

**For Certificate of Creditable Tax Witheld at Source (BIR Form No. 2307) and Certificate of Final Tax Witheld at Source (BIR Form No. 2306) please submit your latest/updated BIR Certificate of Registration together with your quote.*

TERMS OF REFERENCE

SUPPLY, DELIVERY, INSTALLATION, TERMINATION, TESTING, AND COMMISSIONING OF FIBER OPTIC CABLING AND LAN SWITCHES FOR MISD, BRAIN AND SPINE CENTER, 8-STOREY BUILDING, AND PEDIATRIC CANCER CENTER.

A. PROJECT BACKGROUND:

1. Introduction

- The Philippine Children's Medical Center (PCMC) is the leading pediatric institution in the Philippines. It offers advanced and highly specialized medical care to children and adolescents.
- PCMC is poised to conduct network connectivity tests from its Management Information Systems Division Data Center at the main building to three vital facilities: an 8-storey building, a Brain and Spine Center, and a Pediatric Cancer Center. This initiative is critical as we await the completion of our infrastructure project.

2. Project Scope:

- **Physical Connectivity:** Design and implement physical pathways, such as conduits to establish temporary direct connections between the buildings.

3. Implementation Plan:

- **Assessment and Planning:** Conduct a comprehensive assessment of the existing network infrastructure and develop a detailed plan for connecting the four buildings and implementing failover network capabilities.
- **Training and Change Management:** Provide training to hospital staff on using the new network infrastructure effectively and implement change management processes to minimize disruption during the transition period.

4. Benefits:

- **High Availability:** Failover network capabilities ensure continuous access to critical network services and data, minimizing downtime and preventing disruptions to patient care.
- **Future Readiness:** The network infrastructure is designed to accommodate future growth and technological advancements, ensuring that PCMC remains at the forefront of pediatric healthcare delivery.

B. APPROVED BUDGET FOR THE CONTRACT (ABC)

The Approved Budget for the Contract (ABC) is Nine Hundred Fifty Thousand Only
(Php 950,000.00)

C. TIMELINE, OUTCOME AND PERFORMANCE STANDARDS

The terms of engagement will be thirty (30) working days. The contractor is expected to produce a complete project checklist, with milestone markers and delivery dates upon starting the project. The vendor should schedule progress meetings for the duration of the project.

D. CONTRACTOR'S QUALIFICATION

1. The contractor must have at least ten (10) years of experience in the supply, delivery, installation, testing, and commissioning of network equipment and structured cabling systems.
2. The Contractor must have its own test equipment and fiber optic fusion machine. Must attach proof of ownership.
3. These certifications must be provided:
    a. All prospective contractors must be authorized resellers of all equipment to be supported by a certificate issued by the manufacturer/distributor of equipment/materials.
    b. All prospective contractors must be capable of rendering local technical services duly certified by the manufacturer/distributor.
    c. The contractor must have at least one (1) Certified Engineer who is currently employed in the contractor's company trained and certified in the design and installation of cabling systems. Must attach certification.
    d. All prospective contractors shall conduct a site survey & submit a certificate of site survey.
4. All prospective contractors shall submit original copy of design proposal, brochures and other publications that support compliance to the requirements.
5. Proposed Work plan and Detailed Implementation Schedule for the Project covering the whole period. Prospective contractors are required to conduct site inspections. This is to ensure the reliability, security, and efficiency of the required services that the contractor shall perform. The timeframe should be specified for each activity to be done and shall include Gantt Chart Summary.
6. The contractor shall be responsible and accountable for the removal and proper disposal of material and waste generated by this project. Debris, surplus materials, equipment, etc. shall be removed daily.
7. The contractor shall be held solely responsible for any property or personal damages or claims, including damage to existing structures, systems, equipment and/or site caused by the contractor shall repair or replace it to its original condition at no additional cost to the office.

These details will allow the PCMC-Bids and Award Committee to fully evaluate and determine compliance from the prospective contractors.

E. LIST OF DELIVERABLES

1. Supply new 12 core fiber Single-Mode backbone outdoor to 10Gbe Fiber to future 20F from MISD Data Center to 8-Storey, MISD Data Center to Brain and Spine Center, MISD Data Center to Pediatric Cancer Center, 8-Storey Bldg. to Brain and Spine Center And 8-Storey Bldg. to Pediatric Cancer Center.
2. Pulling and Re-harnessing of existing Horizontal Cabling from old cabinet to new ID. Testing and Commissioning of Fiber Optic Backbone cabling.
3. Documentation
    a. Cabling Plan for Structured Cabling and Data Center.
    b. Final Cabling Plan As-Built Plan with Line Diagram.
    c. Final Network/Structured Cabling Diagram.
    d. Network configuration.

4. End to end Tagging and Labelling.

F. BILL OF MATERIALS

Item	Description	Qty	Unit
1.	12 core single mode 9/125 OS2 outdoor MISD Data Center to 8-Storey Bldg. MISD Data Center to Brain and Spine Center. MISD Data Center to Pediatric Cancer Center. 8-Storey Bldg. to Brain and Spine Center. 8-Storey Bldg. to Pediatric Cancer Center.	1,500	lms
2.	19 " Fiber Optic Patch Panel SC port complete set	4	sets
3.	Duplex adaptor cord 1st end LC Duplex, 2nd LC Duplex G9/125 OS2, 1.0 m	10	pcs
4.	Layer 2 Switches	3	units
5.	Optical Transceiver Module, 1G	6	units
6	7ft Closed Type Network Cabinet with Side Wire Manager and PDU	4	units
7	Labor and Engineering Services • Project Management, Installation Cost, Testing & Commissioning, Safety • Roughing Ins & Conducting • Ground and Bonding • Labeling and As-Built Plans • Pulling & Re-harnessing of Existing Cable and Cabinet 1 Lot to new IDF cabinet	1 Lot	Lot

Connectors
The Connectors must be a multimode SC to LC patch cord.

Cable Performance Testing
On the note of Performance Testing, the Cable must support network transmission speeding up to 1G/10G/40G/100Gbps.

Compliance
The components are designed and tested to conform to the fiber and cable performance requirements of TIA 568, ISO 11801, Telcordia GR-409-CORE, and ICEA-596 Standards. All cables have UL or ETL fire safety listings to either OFNR (UL-1666/CSA FT4) or OFNP (NFPA-262/UL 910/CSA FT6)

G. TECHNICAL SPECIFICATIONS

- Please see the separate sheet

H. TRAINING REQUIREMENTS

Prior to Final Acceptance, the supplier shall provide an operational workshop onsite on using the NMS application and basic network management for at least six (6) MISD network personnel for a

period of at least two (2) days inclusive of six (6) pax Certification training inclusive of the exam for the Network Switch unit.

I. SYSTEM AND EQUIPMENT WARRANTY

Warranty starts from the date of completion of the project. The warranty includes version upgrades and updates.

Warranty coverage is as follows:

1. Twenty (20) Years Warranty for Structured Cabling System.
2. Three (3) years warranty in workmanship.
3. Three (3) years warranty on the following:
   3.1. Enterprise Layer 2 Switch.
   3.2. Transceivers, Fans, and Power Supplies
   3.3. All other equipment/systems not specifically mentioned above.

The warranty certificates shall include the **Service Level Agreement (SLA)** and specific terms of the warranty that will be implemented during the warranty periods of every component.

CONFORME:

_____	_____
Authorized Signatory Signature over printed name	Contact No.:
_____	_____
Name of Company/Firm	Company's Official Email Address (where notices will be sent)
_____	
Company's Official Contact No.	