Patients' Aid Foundation (PAF)
Jinnah Postgraduate Medical Centre (JPMC)
Karachi.

TENDER FOR
Provision of Supply, Installation and Commissioning of Equipment & Civil work for 6th Floor Surgical Complex at JPMC Karachi.
For The Financial Year 2023-2024

Tender No: III- Network Deployment for PACS

Technical Evaluation Report:

1. Tender was advertised on **2nd December 2023.**
2. Following bidders participated in the tender:
   a. M/s Talib Enterprises.
3. Technical opening of the tender was held on 17th January 2024 after the extension of two weeks upon request of multiple bidders.
4. Technical evaluation was initiated with mandatory documents check list and M/s Talib Enterprises was found compliant in providing following mandatory documents so was considered for technical evaluation. M/s Talib Enterprises was notified for the same.

i.	M/s Talib Enterprises.	Technically Approved

Technical Compliance Sheet

S.No.	Network Deployment for PACS	M/s Talib Enterprises
1	**24F Multitude Armored Optical Fiber Cable**	Yes
1.1	Quantity: 1,000 meters	Yes
1.2	TYPE OF CABLE: 24F MULTITUBE ARMOURED OPTICAL FIBER CABLE	Yes
1.3	ANSI/TIA-568-C.3: YES	Yes
1.4	EN 50173; ISO/IEC 11801: YES	Yes
1.5	FIBER: Single Mode Fiber	Yes
1.6	FIBER SIZE: um 9/125/250 (OS2)	Yes
1.7	No. OF FIBERS / LOOSE TUBE: 24F	Yes
1.8	24F Color: Various Colors	Yes
1.9	ATTENUATION @ 1310nm: dB/Km < 0.34 (MAX)	Yes
1.1	ATTENUATION @ 1550nm: dB/Km < 0.22 (MAX)	Yes
1.11	ATTENUATION @ 1380 – 1386nm: dB/Km < 0.31 (MAX)	Yes
1.12	POINT DISCONTINUITY: dB < 0.1	Yes
1.13	CUT-OFF WAVELENGTH: nm < 1260	Yes

1.14	CHROMATIC DISPERSION @ 1310 nm: ps/nm x km < 3.5	Yes
1.15	CHROMATIC DISPERSION @ 1550 nm: ps/nm x km < 18	Yes
1.16	CORE/MODE-FIELD: um 9	Yes
1.17	CLADDING: um 125	Yes
1.18	COATING: um 250	Yes
1.19	LOOSE TUBE / TIGHT BUFFER: LOOSE TUBE	Yes
1.20	MATERIAL: PBTP	Yes
1.21	No. OF LOOSE TUBES: 5	Yes
1.22	DIAMETER: mm 3+0.2	Yes
1.23	OPERATING TEMPERATURE: deg C -20 to +70	Yes
1.24	COLOUR: BLACK	Yes
2	**6F Multitude Armored Optical Fiber Cable**	Yes
2.1	Quantity: 2,500 meters	Yes
2.2	TYPE OF CABLE: 6F MULTITUBE ARMOURED OPTICAL FIBER CABLE	Yes
2.3	ANSI/TIA-568-C.3: YES	Yes
2.4	EN 50173; ISO/IEC 11801: YES	Yes
2.5	FIBER: Single Mode Fiber	Yes
2.6	FIBER SIZE: um 9/125/250 (OS2)	Yes
2.7	No. OF FIBERS / LOOSE TUBE: 6F	Yes
2.8	30F Color: Blue, Orange, Green, Brown, Grey & White	Yes
2.9	ATTENUATION @ 1310nm: dB/Km < 0.34 (MAX)	Yes
2.10	ATTENUATION @ 1550nm: dB/Km < 0.22 (MAX)	Yes
2.11	ATTENUATION @ 1380 – 1386nm: dB/Km < 0.31 (MAX)	Yes
2.12	POINT DISCONTINUITY: dB < 0.1	Yes
2.13	CUT-OFF WAVELENGTH: nm < 1260	Yes
2.14	CHROMATIC DISPERSION @ 1310 nm: ps/nm x km < 3.5	Yes
2.15	CHROMATIC DISPERSION @ 1550 nm: ps/nm x km < 18	Yes
2.16	CORE/MODE-FIELD: um 9	Yes
2.17	CLADDING: um 125	Yes
2.18	COATING: um 250	Yes
2.19	LOOSE TUBE / TIGHT BUFFER: LOOSE TUBE	Yes
2.2	MATERIAL: PBTP	Yes
2.21	No. OF LOOSE TUBES: 1	Yes
2.22	DIAMETER: mm 3+0.2	Yes
2.23	OPERATING TEMPERATURE: deg C -20 to +70	Yes
2.24	COLOUR: BLACK	Yes
3	**CAT 6A Cable**	Yes
3.1	**Quantity:** 6,400 meters	Yes
3.2	**Type:** Cat 6A Ethernet Cable	Yes
3.3	**Standards:** ANSI/TIA-568-C.2: YES	Yes
3.4	ISO/IEC 11801: YES	Yes
3.5	IEEE 802.3an: YES	Yes
3.6	**Insulation Diameter:** 1.0 ± 0.03 mm	Yes
3.7	**Number of Pairs:** 4	Yes
3.8	**Pair Shielding:** Foil Shielding	Yes
3.9	**Pair Twist Rate:** ≥ 6.8 turns per inch	Yes
3.10	**Jacket Material:** PVC	Yes

3.11	**Jacket Thickness:** 0.6 ± 0.05 mm	Yes
3.12	**Jacket Color:** Blue	Yes
3.13	**Frequency:** Up to 500 MHz	Yes
3.14	**Impedance:** 100 ± 15 ohms	Yes
3.15	**Maximum Attenuation:** 20 dB/100m @ 500 MHz	Yes
3.16	**Conductor Material:** Solid Bare Copper	Yes
3.17	**Gauge:** 23 AWG	Yes
3.18	**Insulation Material:** High-Density Polyethylene	Yes
3.19	**Total Length:** 6400 meters	Yes
3.20	**Operating Temperature:** -20°C to +75°C	Yes
3.21	- Supports Gigabit Ethernet, 10 Gigabit Ethernet	Yes
3.22	- Flame Retardant	Yes
3.23	- RoHS Compliant	Yes
4	**CAT 6 Cable**	Yes
4.1	**Quantity:** 14,000 meters	Yes
4.2	Cat 6 Ethernet Cable	Yes
4.3	ANSI/TIA-568-C.2: YES	Yes
4.4	ISO/IEC 11801: YES	Yes
4.5	**Conductor Material:** Solid Bare Copper	Yes
4.6	**Gauge:** 24 AWG	Yes
4.7	**Insulation Material:** Polyethylene	Yes
4.8	**Insulation Diameter:** 1.0 ± 0.05 mm	Yes
4.9	**Number of Pairs:** 4	Yes
4.10	**Pair Shielding:** Unshielded	Yes
4.11	**Pair Twist Rate:** ≥ 5.8 turns per inch	Yes
4.12	**Jacket Material:** PVC	Yes
4.13	**Jacket Thickness**: 0.5 ± 0.1 mm	Yes
4.14	**Jacket Color:** Gray	Yes
4.15	**Frequency:** Up to 250 MHz	Yes
4.16	**Impedance:** 100 ± 20 ohms	Yes
4.17	**Maximum Attenuation:** 23.6 dB/100m @ 250 MHz	Yes
4.18	**Total Length:** 14000 meters	Yes
4.19	**Operating Temperature:** -10°C to +60°C	Yes
4.20	- Supports Gigabit Ethernet	Yes
4.21	- Suitable for general indoor use	Yes
4.22	- RoHS Compliant	Yes
5	**Cable Tray**	Yes
5.1	**Quantity:** 2,000 Feet	Yes
5.2	4 inches by 2 inches (Width by Height)	Yes
5.3	**Material**: Steel	Yes
5.4	**Finish:** Electro-galvanized or Powder-coated	Yes
5.5	**Width:** 4 inches	Yes
5.6	**Height:** 2 inches (Specify if available)	Yes
5.7	**Load Capacity:** Dependent on tray dimensions	Yes
5.8	**Installation:** Wall-mounted or Ceiling-mounted	Yes
5.9	Used for managing and supporting cables	Yes
5.10	Indoor use	Yes

5.11	Compatible with various cable types and sizes	Yes
5.12	Complies with industry standards for cable management systems	Yes
5.13	- Corrosion-resistant	Yes
5.14	- Durable and sturdy	Yes
5.15	- Easy installation and maintenance	Yes
5.16	- Allows proper cable organization and routing	Yes

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