



# राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान, हाजीपुर

National Institute of Pharmaceutical Education and Research (NIPER), Hajipur

औषध विभाग / Department of Pharmaceuticals

रसायन एवं उर्वरक मंत्रालय, भारत सरकार / Ministry of Chemicals & Fertilizers, Govt. of India

Ref. No. NIPER-HJP/Tender/2024-25/09

Dt. 31/05/2024

## Notice Inviting Quotations

Quotation is invited against **BOQ (Bill of quantity)** from the interested firms for supply and installation of new LAN connection in Medical Centre and Security Post, NIPER, Hajipur.

Sealed Quotations are invited from the reputed firms as per BOQ given below. The rates may be given as indicated work below:

Sl. No.	Particulars	Qty.	Rate	Total
1	Unmanaged PoE Switch - 4X10/100/1000 Supply & Installation	1 Unit		
2	Unmanaged Switch - 8X10/100/1000 Supply & Installation	1 Unit		
3	6 Core outdoor Single Mode Fiber Optic Cable with splicing Supply & Installation	200 Meter		
4	JB Box Supply & Installation	2 Units		
5	I/O Box loaded Supply & Installation	4 Units		
6	9U wall mounting rack with accessories Supply & Installation	1 Unit		
7	Single Mode Dual Fiber media converter Supply & Installation	2 Pair Units		
8	SC-SC Duplex Fiber Patch Cord for SM OFC Supply & Installation	3 Pieces		
9	CAT 6 UTP Patch Cord-2M Supply & Installation	5 Pieces.		

**(Note- Technical specification of the above items is attached)**

### Terms and Conditions:

- Interested vendors are requested to visit the site and discuss with the indenting Department/Purchase Section for actual scope of work and requirement which may vary from the above listed requirement.
- The Quotation may be submitted by the vendor latest by 04th June 2024 till 2 P.M. on email ID- [purchase@niperhajipur.ac.in](mailto:purchase@niperhajipur.ac.in).
- The Quotation should be in the name of the Director, NIPER Hajipur, Vaishali, Bihar-844102.
- The Quotation must include GST and Delivery/Loading/Unloading/Installation Charges. The L1 Price Calculate on Overall Quoted rate of s.no.1 to 9 mentioned in the quotation.
- Vendor should have registered with GST and done at least one similar work.
- The above works shall be carried out within 1 week from the date of award of work.
- Actual work may vary.
- NIPER-Hajipur reserves the right to amend, withdraw or cancel the quotation notice at any point of the bidding process.

Sd/-  
Registrar (I/c)

# Technical Specification

## 1. Unmanaged PoE Switch - 4X10/100/1000

Feature	Specification
Network Port	PoE (1~3) :10/100Mbps PoE ports (RJ45)
	PoE (4) :10/100Mbps PoE port, BT port,
	Compatible uplink port (RJ45) LAN
	(1~2):10/100Mbps uplink port (RJ45)
Network Standard	IEEE 802.3i 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3x Flow Control
	IEEE 802.3af/at/bt Power over Ethernet
Transmission Rate	200Mbps Full Duplex; 10 or 100Mbps Half Duplex
Transmission Distance	100Mbps /10Mbps Adaptive MAX 250m
MAC Address Table	2K
Bandwidth	1.2 Gbps
Network Latency	(10 to 100Mbps): ≤16μs (use the 64byte package size)
Frame Filter & Transmission Rate	14800pps the most for 10Mbps port, 148800pps the most for 100Mbps port
Power Budget	65W
Power Input	AC 180~240V Total ≤65W
PoE Watchdog	Port 1~4
Power Output	PoE 1~3 Port: 1/2(+52V), 3/6 (GND)≤30W
	PoE 4 Port: 1245(+53V), 3678 (GND) compatible 1/2 (+52V), 3/6 (GND)≤60W
Lightning Protection	6KV, Per: IEC61000-4-5
ESD Protection	8KV, Per: IEC61000-4-2
Operating Temperature	-30°C ~60°C
Working Humidity	10%~90% (Non-condensing)
Storage Temperature	-40°C ~70°C
Storage Humidity	5%~90% (Non-condensing)
Warranty	1 year

## 2. Unmanaged Switch - 8X10/100/1000

Feature	Specification
Network Ports	8 x 10/100/1000/Mbps RJ45 Ports AUTO Negotiation/AUTO MDI/MDIX
Backplane Bandwidth	16 GBPS
Transmission Distance	100 M
Packet Forwarding Rate	11.9Mbps
Network Standard	Complies with IEEE802.3, IEEE802.3u.IEEE802.3ab standards.
Switch Capacity	16 GBPS
Forwarding Mode	Store and forward
Network medium	RJ-45
Buffer	384Kbyte
Ethernet Port Light	8 leds
LEDs Indicator	8 leds
Surge Protection	2KV
Lightning Protection	2KV
Anti-thunder Level	2KV
Operating Temperature	0° ~ 40°C (32°F ~ 104°F)
Operating Humidity	10%~90% non-condensing
Storage Temperature	-20°C ~ 70°C
Storage Humidity	5%~90% non-condensing
Power Supply	5V DC /1A.
Power Consumption	5W
Warranty	1 year

### 3. 6 Core outdoor Single Mode Fiber Optic Cable with splicing

Specification
6 -Core, Single mode 9/125 micron primary coated buffers, 10G Ethernet OS2, Armored Loose Tube, ECCS (Electrolytic Chrome Coated Steel) Tape, Jelly Filled Loose Tube.
Two Steel Wires/Rods embedded in outer periphery of the jacket as strength members. UV Stabilized jacket and protected from Rodent attacks
Complying to ANSI/TIA-568-C.3, ISO/IEC 11801, Telecordia GR-20 Core, ITU-T REC G.652D, IEC 60793-1/60794-1, EN 50173, RoHS Compliant
Suitable for use in indoor/outdoor ducts, direct burial and backbone cabling
Loose tube material : Polybutylene Terephthalate (PBT) with Natural/White Colour having Inner Diameter/Outer Diameter 1.7/2.5 ± 0.1 mm
Peripheral strength member as two steel wires/rods having dimensions as 0.6 ± 0.05 mm
Moisture Barrier as Water Sellable Tape, Armoring ≥ 0.150 mm (ECCS Tape), Number of Ripcords as 01 no polyester based yarns.
Outer sheath material as HDPE/LSZH with diameter as 7.5/8.5 ± 0.5 mm having thickness of 1.5mm nominal
Fiber colour and Loose tube colour as per ANSI/TIA standards.
Tensile Strength : 1000 N, Crush Resistance : 4000 N/100mm
Attenuation : ≤ 0.38 dB/km (@1310 nm), ≤ 0.25 dB/km (@1550 nm)
Zero Dispersion Wavelength : 1300 - 1324 nm
Zero Dispersion Slope : ≤ 0.092 ps/nm <sup>2</sup> .km
Polarisation Mode Dispersion : ≤ 0.2 ps/vkm
Cut-off Wavelength : ≤ 1260 nm
Mode Field Diameter : 9.2 ± 0.4 μm (@1310 nm) , 10.4 ± 0.4 μm (@1550 nm)
Core Cladding Concentricity Error : ≤ 0.8 μm
Cladding Diameter : 125 ± 1 μm , Coating Diameter : 245 ± 10 μm
Cladding Non-circularity : ≤ 1 %
Installation Temperature : -20 °C to +70° C
Operating Temperature : -20 °C to +60° C

### 4. JB Box

As per standard make

### 5. I/O Box loaded

As per standard make

### 6. 9U wall mounting rack with accessories

Height	48.5 cm
Width	60 cm
Depth	60 cm
Mounting Support	Wall

### 7. Single Mode Dual Fiber media converter

Feature	Specification
10/100Mbps to 100Base-Fx Media Converter (Single Mode 25Kms)	Fiber Mode Single Mode
	Wavelength 1310nm
	Fiber Cable 9/125Micron
	Fiber Cable Distance 25Kms
	Fiber Connector SC type
	Copper UTP Port RJ-45
Environment Specifications	
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~70°C

Humidity	5%~90% Non-condensing
Warranty	1 year

8. SC-SC Duplex Fiber Patch Cord for SM OFC

As per standard make and should compatible with above mentioned in point no. 7 Single Mode Dual Fiber Media

9. CAT 6 UTP Patch Cord-2M

As per standard make