



**UNIVERSITY SERVICE AND INSTRUMENTATION CENTRE**  
 University of Kerala  
 Kariavattom  
 Thiruvananthapuram-695 581  
 Phone: 2308465

**Instrumentation Engineer in charge**

UISC/ IAN/13-14

Date: 29-7-2013

**QUOTATION NOTICE**

Quotations are invited for the supply of Network Related Items for the use of CLAN under USIC, Kariavattom Campus, University of Kerala. The required specifications for the items are appended herewith.

**Conditions**

1. The rate quoted should be inclusive of Tax, transportation charges and any other charges.
2. Complaints with the items supplied should be rectified /replaced to the satisfaction of the University by the suppliers at their own cost. Payment will be made only after the supply of the items at our own site.
3. The undersigned reserves the right to reject /accept any quotation without assigning any reason.
4. The OEM should have a replacement outlet in Trivandrum
5. All items shall be supplied along with technical literature & brochures.
6. AMC rate for the actives must be specified with quotation.

Sl.No	Item	Qty	Description
1	Network Switch With One number 1000 Base LX Module	1 No	Compatible with the switch at the other end, Nortel 4524 GT+1000 Base LX module at the Server Room.  Ethernet Switch-24 ports – L3 - Managed Rack mountable – 1 U <ul style="list-style-type: none"> <li>• 24 10/100/1000Base- T, with auto negotiation.</li> <li>• 2 1000Base-X SFP slots</li> <li>• Switching Capability: 52Gbps</li> <li>• Packet Buffer Size: 448KB</li> <li>• MAC Address Table: 16K</li> <li>• Auto-negotiation for port speed and duplex mode</li> <li>• Flow Control: IEEE 802.3x for full duplex mode Back-Pressure for half duplex mode</li> <li>• Spanning Tree Protocol IEEE 802.1D Spanning Tree Protocol (STP) IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)</li> <li>• VLANs Supports 255 IEEE 802.1Q VLANs Port-based VLAN Supports Q in Q</li> <li>• Link Aggregation Static Trunk IEEE 802.3ad Link Aggregation Control Protocol Trunk groups: 8, Trunk links: 2-8</li> <li>• IGMP Snooping: IGMP v1/v2 snooping, IGMP Immediate Leave</li> <li>• Supports jumbo frames up to 9KB</li> <li>• Priority Queues 8 hardware queues per port Traffic classification based on IEEE 802.1p CoS, IP Precedence Supports WRR and Strict scheduling</li> <li>• Bandwidth Control Egress rate limiting: FE: 64K</li> </ul>

			bits/sec~100M bits/sec GE: 64K bits/sec~1000M bits/sec Ingress rate limiting: FE: 64K bits/sec~100M bits/sec GE: 64K bits/sec~1000M bits/sec
			<ul style="list-style-type: none"> <li>• Supports IEEE 802.1X port based</li> <li>• MAC Filter</li> <li>• IP Filter</li> </ul> <ul style="list-style-type: none"> <li>• Switch Management WEB management SNMP v1, v2c</li> <li>• Firmware &amp; Configuration Firmware upgrade via Web Supports DHCP Client Supports LLDP (802.1ab)</li> </ul>
2	Network Switch with one number 1000 Base LX Module	1 No	Ethernet Switch-24 ports Rack mountable 1U Ports 24 x 10/100/1000+2x combo Gigabit SFP
			<ul style="list-style-type: none"> <li>• 24 x 10/100/1000 Mbps auto-sensing UTP RJ-45 ports</li> <li>• 2 x SFP ports</li> <li>• IEEE 802.3 10BASE-T Ethernet</li> <li>• IEEE 802.3u 100BASE-TX Fast Ethernet</li> <li>• IEEE 802.3ab 1000BASE-T Gigabit Ethernet</li> <li>• IEEE 802.3z 1000BASE SX/LX</li> <li>• IEEE 802.3az Energy Efficient Ethernet</li> <li>• IEEE 802.3x Full-duplex flow control</li> </ul> <ul style="list-style-type: none"> <li>• CSMA/CD</li> </ul> <ul style="list-style-type: none"> <li>• 10BASE-T: UTP Cat. 3, 5 (100 m)</li> <li>• 100BASE-TX: UTP Cat. 5, 5e (100 m)</li> <li>• 1000BASE-T: UTP Cat. 5, 5e, 6 (100 m)</li> </ul> <ul style="list-style-type: none"> <li>• Ethernet: 10 Mbps (Half-duplex), 20 Mbps (Full Duplex)</li> <li>• Fast Ethernet: 100 Mbps (Half-duplex), 200 Mbps (Full-Duplex)</li> <li>• Gigabit Ethernet: 2000 Mbps (Full-duplex)</li> </ul> <ul style="list-style-type: none"> <li>• Forwarding mode: Store-and-forward</li> <li>• Buffer memory: 448 KB</li> <li>• MAC Address database: 16K</li> <li>• Jumbo Frames: 9KB</li> </ul> <p>Switching fabric: 52Gbps</p>
3	LAN Tester	1 No	
4	Media Converter (MM)	8 Nos	100 Mbps (SC Connector) Media Converter
5	Media Converter (SM)	4 Nos	1000 Mbps (SC Connector) Media Converter
6	OFC Patch Cord (MM)	6 Nos	3 Mtr – ST to SC
7	OFC Patch Cord (SM)	6 Nos	3 Mtr – SC to SC (3 Nos); SC to LC (3 Nos)

The sealed quotation should be addressed to the undersigned, super scribing as Quotations for the supply of items. The last date of receipt of quotations is at 3.00 PM on 2<sup>nd</sup> September 2013. The quotations will be opened at 3.15 PM on the same day in USIC.

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