NIELIT CALICUT

(Autonomous Scientific Society of Ministry of Electronics & Information Technology, Govt. of India)

NIT Campus Post, CALICUT-673 601, KERALA

Email : purchase@calicut.nielit.in Web : **http://nielit.gov.in/calicut**

Phone : 0495-2287266 Fax : 0495-2287168

LIMITED TENDER ENQUIRY

Ref. No.: 2(1096)/2018-19/ITG/OFC Date: 17-07-2018

To

DUE DATE: 31-07-2018

1. Quotations are invited for the supply of the items as per Annexure.
2. The quotations duly **SIGNED, SEALED AND SUPERSCRIBED ON THE ENVELOPE WITH THE REFERENCE No. AND DUE DATE,** should be addressed to the undersigned so as to reach on or before the due date stipulated above. Quotations received after the due date will not be considered.
3. The quotations should be valid for acceptance for a period of **sixty days** from the due date
4. Quotations will not be accepted by Fax, Email or any such electronic data transfer form.
5. The quotations should be for goods exactly conforming to our requirements and specifications.
6. If the item is under DGS&D Rate contract, the number and the price applicable must be mentioned. It may also please be indicated whether the supply can be made direct to us at the DGS&D Rate Contract Price.
7. Relevant literature pertaining to the items quoted with full specifications and drawings, if any should be sent along with the quotations, wherever applicable. Samples, if called for, should be submitted free of charges and collected back at the supplier's expenses.
8. Copy of Manufacturing licence, Principal or Authorized Distributor/Dealer Certificate, and Proprietary Certificate, as applicable, should be enclosed.
9. Quotations should be for **free delivery** at our Centre and should clearly specify the **delivery period**. If delivery quoted is Ex-Godown/Consignor Station, delivery charges consisting of freight, packing & forwarding charges, insurance, etc. should be indicated separately. Goods should be supplied duly carriage paid and insured.
10. GST Registration Number of NIELIT Calicut is: 32AAATD0315M1Z6. GST or any other taxes may be charged as per the rates applicable to Scientific/Educational institutions.
11. Security Deposit @ 5% of the Purchase Order/Invoice value shall be retained, in case order/contract value exceeds Rs.1 lakh, which will be released after the expiry of warranty period.
12. Goods shall not be supplied without an official purchase order.
13. Payment : Payment will be made after completion of supply, installation/assembly and commissioning of the items covered by the order along with necessary spares supplied to the entire satisfaction of NIELIT CALICUT. Payment against invoices shall normally be made within 30 days of receipt and acceptance of equipment/materials at our office. **No advance payment will be made under any circumstance**.
14. Incomplete quotations and quotations which do not comply with all the above instructions are liable to be summarily rejected.
15. NIELIT CALICUT does not bind itself to accept the lowest or any such quotation and has the right to accept or reject whole or any part of tenders or a portion of the supply of goods without assigning any reasons. No correspondence in case of rejected tenders will be entertained.
16. Earnest Money Deposit (E.M.D.) for **Rs. 21,500/-** be deposited by NEFT in the Bank Account No. 10401158037 (IFSC: SBIN0002207) at State Bank of India, NIT Calicut Branch, CREC Campus, Chathamangalam, Calicut – 673 601, in favour of Director, NIELIT CALICUT, failing which the quotation will be rejected.

Yours faithfully,

Purchase In-Charge
For Executive Director

Encl: **Annexure**

ANNEXURE TO ENQUIRY

Your Quotation No. Date:

1	Name of item(s)	Optical fiber Cabling to Campus II and termination
2	***Specifications & Quantity*** **As per separate sheet attached.**	
3	Price per unit in Rs. (in figures & words)	Attach separate list, if required.
4	Total Price in Rupees (in figures & words)	
5	Delivery Period	
6	Terms of Delivery	
7	Taxes, Duties, Octroi & any other statutory levies or charges	
8	Transportation, Insurance, Packing & Forwarding etc.	
9	Discount/off etc., if any	
10	GST Registration No.	
11	Payment Terms	
12	Validity of Tender	
13	Warranty	
14	Any other remarks	
15	Signature of the Tenderer with Name and Date	
16	Address with Email ID & Mobile No.	
17	Central Public Procurement Portal (www.eprocure.gov.in) Registration, Email login ID	

NB: (1) The prices quoted and Taxes charged should be Academic/Educational Prices/rates, wherever applicable.

(2) Enquiry for the above items and specifications can also be downloaded from our website *http://nielit.gov.in/calicut* or *www.eprocure.gov.in*

(3) Please register at www.eprocure.gov.in and intimate login details without fail. Watch website for regular updates.

OFC Wiring to Campus2

SL NO	DESCRIPTION	QTY	UNIT	Specification
1	24 port 100/1000 BASE-T RJ-45 PoE+ ports with 4 X 1 G SFP port L2 Fully manageable PoE Switch (Detailed Specification attached)	1	No.	Annexure1
2	8 port 100/1000 BASE-T RJ-45 PoE+ ports with 2 X 1G SFP port L2 Fully manageable PoE Switch (Detailed Specification attached)	1	No.	Annexure2
3	1000 BASE SFP Transceiver - LX module	4	No.	Same Make of Switch
4	24 port patch panel unloaded	2	Nos.	Annexure3(1)
5	CAT6 keystone single I/O	20	Nos.	Annexure3(2)
6	CAT6 Patch cord – 1 Meter	10	Nos.	Annexure3(3)
7	Face Plate - Single Shuttered	10	Nos.	Annexure3(4)
8	Back Box – OEM	10	Nos.	OEM
9	Twelve core, Single Mode, armored, loose tube, gel filled OFC Cable	1200	Mts.	Annexure4(1)
10	SC Duplex Adaptors	24	No.	Annexure4(2)
11	24 port 1U size rack-mountable LIU loaded with SC Duplex panel	3	No.	Annexure4(3)
12	Single Mode SC pigtails 1.5m	48	No.	Annexure4(4)
13	Single Mode SC-LC Patch Duplex Cords 2m	4	No.	Annexure4(5)
14	Single Mode SC-SC Patch Cords 1m	2	No.	Annexure4(5)
15	19” 42U 800X1000 Rack Floor Mountable ,Fan 4 Nos, ACDB 6 x 5Amps Socket with 3mtr chord, Cable Manager 4 Nos , Hardware Kit ,glass door , Lock & Key, shelf 1 no and castor wheels	1	No.	Annexure5(1)
16	19” 6U Rack with fan 1 nos, ACDB 6X5 amps , cable manager 1 nos and Hardware kit	1	Nos.	Annexure5(2)
17	32mm ISI Marked B class GI with Accessories	12	No.	
18	32mm ISI PVC Conduit / Casing Capping with Accessories	30	Mts.	
19	Soft soil Excavation and Refilling with bricks at a depth not less than 70 cm	130	Mts.	
20	Hard soil Excavation and Refilling with bricks at a depth not less than 70 cm	20	Mts.	
21	GI Pipe Laying	6	Mts.	
22	GI Pipe Laying at a depth not less than 50 cm below ground level and the road top cover with concrete	6	Mts.	
23	Fiber Laying	1200	Mts.	
24	Cat6 cable laying	50	Mts.	
25	Supply and PVC Conduit / Casing Capping pipe Laying - 25mm	100	Mts.	
26	Pigtail Splicing	48	Nos.	
27	LIU Fixing	3	Nos.	
28	Rack Fixing	2	Nos.	
29	Information Outlet Termination	10	Nos.	
30	Jack Panel Termination	2	Nos.	
31	Face Plate & Back Box Fixing	10	Nos.	
32	Construction of masonry chamber 45X45X45 cm with plastered bricks and plastered concrete slab	10	Nos.	
33	Supply and fixing route marker of size 60X30X10 cm made of cement plastering inscribing required letters with approved color paint	25	Nos.	

Quantity/Length of Passives and Labour may slightly vary according to actual site requirements.
Therefore, billing for the same will be at actuals.
General terms for bidders – Annexure 6

Annexure 1

S.N	24 Port Switch – Technical Specification		Compliance
	General Features	Switch should have 24 nos of 10/100/1000 Ethernet Ports & 4 x 1Gbps SFP Uplinks Ports	
		Should have Fanless operation with operational temperature up to 45°C for deployment outside the wiring closet.	
		Switch should have reduced power consumption and advanced energy management	
		Less than 11.5-inch depth fit in use cases with space limitation	
		Switch should support USB A port for storage and Bluetooth Console	
		Should Support Over-the-air configuration and management via Bluetooth interface	
		Switch should have RJ45 and USB console access for simplified operations	
17.	POE	Switch should support PoE and PoE+ on all ports. Switch should have minumum 195W PoE/PoE+ Power budget across all ports.	
		Switch should be able maintain PoE+ power for connected devices during a switch reload	
18.	Performance and Scalability	Should support at least 56 Gbps Switching bandwidth & 28 Gbps Forwarding bandwidth	
		Should support Forwarding Rate of 41.67 Mpps (64 byte L3 packets)	
		256 MB of Flash memory & 512 MB DRAM	
		Support 64 active VLANs & 4K VLAN IDs	
		Should have ARMv7 800 MHz CPU	
		Switch should have MTBF (in hours) atleast 241,2947	
		8KUnicast MAC addresses	
3	Layer 2 Features	IGMP filtering, DFCP, LACP	
		Switch should Support MDIX	
		Switch Should Support VTP, TFTP, NTP protocols	
		Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN	
		IGMP v1, v2 & V3 Snooping	
		Switch Should support Static Routing	
4	Qos Features	4 egress queues & 2 thresholds per port to enable differentiated management	
		Differentiated services code point (DSCP) field classification	
		Control- and Data-plane QoS ACLs	
		Should support WTD & WRR for Scheduling and congestion avoidance	
		802.1p class of service (CoS) classification	
5	Network security features	IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
		Should Support (Port Security, DHCP snooping, Dynamic ARP Inspection (DAI)). This feature simplifies security configurations with a single touch.	
		Should Support Mulitlevel security on Console Access, ACL and Port based ACL's	
		Should Have Switch Port analyzer	
		Should support SSH, kerberos, SNMP V3	
		TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
		Port security to secure the access to an access or trunk port based on MAC address.	
6	IPv6 Features	The switch should be on the approved list of IPv6 Ready Logo phase II - Host	
		The switch should support IPv6 QoS	
		IPv6 First Hop Security: RA Guard, DHCPv6 Gurad, Binding Integrity guard	
7	Redundancy & Resiliency	Should support IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
		Should support Per-VLAN Rapid Spanning Tree (PVRST+)	
		Should SupportSwitch-port autorecovery (error disable)	
8	Operating temperature	Should have Operating temperature ranging (–25º to 70ºC)	
9	Management	CLI, console, Telnet, SSH, SNMPv3, Web Management, Bluetooth	
10	Support	Shoud provide Enhanced Limited ifetime warranty	

Annexure 2

S.N	8 Port Switch – Technical Specification		Compliance
1	General Features	Switch should have 8 no's 10/100/1000 Ethernet Ports & 2x 1Gbps SFP Uplinks Ports	
		Should have Fanless operation with operational temperature up to 45°C for deployment outside the wiring closet	
		Switch should have reduced power consumption and advanced energy	
		management Less than 11.5-inch depth fit in use cases with space limitation	
		Switch should support USB A port for storage and Bluetooth Console	
		Should Support Over-the-air configuration and management via Bluetooth interface	
		Switch should have RJ45 and USB console access for simplified operations	
2	POE	Switch should support PoE and PoE+ on all ports. Switch should have minumum 67W PoE/PoE+ Power budget across all ports.	
		Switch should be able maintain PoE+ power for connected devices during a switch	
2	Performance and Scalability	reload should support atleast 20 Gbps Switching bandwidth & 10 Gbps Forwarding	
		bandwidth Should support Forwarding Rate of 14.88 Mpps (64 byte L3 packets)	
		256 MB of Flash memory & 512 MB DRAM	
		Support 64 active VLANs & 4K VLAN IDs	
		Should have ARMv7 800 MHz CPU	
		Switch should have MTBF (in hours) atleast 241,2947	
		8KUnicast MAC addresses	
3	Layer 2 Features	IGMP filtering, DFCP, LACP	
		Switch should Support MDIX	
		Switch Should Support VTP, TFTP, NTP protocols	
		Voice VLAN to simplify IP telephony installations by keeping voice traffic on a separate VLAN	
		IGMP v1, v2 & V3 Snooping	
		Switch Should support Static Routing	
4	Qos Features	4 egress queues & 2 thresholds per port to enable differentiated	
		management Differentiated services code point (DSCP) field	
		classification Control- and Data-plane QoS ACLs	
		Should support WTD & WRR for Scheduling and congestion	
		avoidance 802.1p class of service (CoS) classification	
5	Network security features	IEEE 802.1x to allow dynamic, port-based security, providing user authentication.	
		Should Support (Port Security, DHCP snooping, Dynamic ARP Inspection (DAI)). This feature simplifies security configurations with a single touch.	
		Should Support Mulitlevel security on Console Access, ACL and Port based ACL's	
		Should Have Switch Port analyzer	
		Should support SSH, kerberos, SNMP V3	
		TACACS+ and RADIUS authentication enable centralized control of the switch and restrict unauthorized users from altering the configuration.	
		Port security to secure the access to an access or trunk port based on MAC	
6	IPv6 Features	address. The switch should be on the approved list of IPv6 Ready Logo	
		phase II - Host The switch should support IPv6 QoS	
		IPv6 First Hop Security: RA Guard, DHCPv6 Gurad, Binding Integrity guard	
7	Redundancy & Resiliency	Should support IEEE 802.1s/w Rapid Spanning Tree Protocol (RSTP) and Multiple Spanning Tree Protocol (MSTP)	
		Should support Per-VLAN Rapid Spanning Tree (PVRST+)	
		Should SupportSwitch-port autorecovery (error disable)	
8	Operating temperature	should have Operating temperature ranging (–25º to 70ºC)	
9	Management	CLI, console, Telnet, SSH, SNMPv3, Web Management,	
10	Support	Bluetooth Shoud provide Enhanced Limited ifetime warranty	

Annexure 3

Passives for Copper			
S.N	Min. Required Specification	Compliance (Yes/No)	Deviation if Any
1	**24 port Unloaded Patch panel - Cat 6 UTP**		
	Patch Panel should be made of powder coated steel, in 24 port configurations.		
	Have port identification numbers on the front of the panel.		
	Improved cable management with optional cable management bar		
2	**CAT 6 KeyStone- Mechanical Characteristics**		
	Plastic Housing: PBT + Glass Fiber, UL94V-0		
	rated Operating Life: Minimum 750 insertion		
	cycles Contact Material: Copper Alloy		
	Contact Plating: 50µ" Gold plated on plug contact		
	area IDC Connector		
	Plastic Housing: Polycarbonate, UL94V-2 rated or equivalent		
	Contact Material: Copper Alloy		
	IDC Contact Plating: Phosphor bronze with tin plated		
	Wire Accommodation: 22-26 AWG solid		
	Insulation resistance - 1000 M ohms min @500		
	VDC Contact resistance- 100 M ohms max		
	Operating temp - minus 40 to 70 degree		
	Storage temp - minus 10 to 60 degree		
3	**Patch Cords - Cat 6 UTP**		
	Category 6 Equipment cords - 1 Meter		
	The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100W Category Cabling.		
	Equipped with modular 8-position modular plugs on both ends, wired straight through with standards compliant wiring.		
	Should have 50 micro inches of gold plating over nickel contacts.		
	Mechanical Characteristics – Cable		
	Conductor size: 24 AWG stranded bare		
	copper Insulation Material : HD-PE		
	Outside –Tape Metal : MYLAR		
	Jacket: PVC UL-94V-O		
	Temperature range: -10oC to +80oC		
	Mechanical Characteristics – Plug		
	Operating life: Minimum 750 insertion		
	cycles Contact blade: Phosphor bronze		
	Contact plating: 30µ" Gold		
	Electrical Characteristics – Plug		
	Dielectric withstanding voltage :500 V AC		
	Insulation resistance : 35 M Ohm (Max)		
	Operating temperature: -10oC to 80oC		
4	**Face plate**		
	Face Plate - Single (Square) with shutter		
	Screws / hole covers to supplied with face		
	plate labelling on transparent plastic window		
	Face Plate - ABS		
	UL94-HB, Dust Cover - ABS, UL94-HB		

Annexure 4

	Optical Fiber components			
S.N	**Specification**		**Compliance (Yes/No)**	**Deviation if Any**
1	**Optical Fiber Cable – Single mode (SM) armoured**			
	Characteristic	**Min. Required Specification**		
	GENERAL:	Single mode OFC and have Central Loose tube with jelly compound.		
		Fiber outer jacket material - HDPE		
		Fiber cable shall have Glass yarns in between Steel tape & loose tube.		
		Fiber cable is Corrugated Steel tape armoured.		
		The fiber is optimized for operation at 1310 nm and at 1550 nm.		
		Should fulfill the requirements of:		
		ISO 11801		
		IEC 60793-1/60794-1-2		
		ITU-T REC G.652D		
		Telcordia GR-20-core		
	GEOMETRICAL PROPERTIES:	Outer Diameter (mm): 7.2 ±0.5		
		Thickness of Jacket(mm): 1.8 ± 0.2		
		Mode field diameter (um): 9.2 um +-0.4		
		Cladding Non-Circularity <=1.0%		
		Mode field Concentricity Error <=0.8 um		
		Coating Diameter 245+-10 um		
		Coating / Cladding Concentricity Error <=12.0 um		
	OPTICAL PROPERTIES	Attenuation (of cable with fibers):		
		At 1310 nm: <= 0.38 dB/km		
		At 1550 nm: <= 0.25 dB/km		
		Macrobend: </=0.5		
		Pulling Tension (IEC 60794–1–2–E1): 1000N for short term		
		Crush Load IEC 60794–1–2–E3 (N/100mm): 2000		
		Bending Radius (mm): 20D for Short term		
		Zero Dispersion Slope :-		
		Zero Dispersion Slope <=0.092 ps/nm2.km		
		Zero Dispersion Wavelength 1302nm to 1322nm		
		MAX PMD INDIVIDUAL FIBRE - <=0.2 ps/sqrt km		
		EFFECTIVE GROUP INDEX OF REFRACTION : At 1310nm 1.166 Typical & At 1550nm 1.467 Typical		
		Cable Cutoff Wavelength - <=1260 nm		
		Coating Strip Force - 1.3 N to 5.0 N		
	Mechanical Characteristics:	COLOUR CODE: BL-Blue, OR-Orange, GR-Green, BR-Brown, GY-Grey WH-White, RD-Red, BK-Black, YE-Yellow, PU-Purple, PI-Pink, AQ-Aqua		
		Water Immersion (23 ± 2 deg C) Induced Attenuation - <=0.05 dB/km		
		Heat Aging (85 ± 2 deg C) Induced Attenuation: <=0.05 dB/km		
		Operating Temperature Range: -20 deg C to+60		
		deg C Storage Temperature -40 dec C to +60 deg C		
2	**Adapter: SC Duplex type**			
		Adapters should have compact design & high precision.		
		Telcordia, TIA/EIA, IEC compliance		
		Insertion Loss -< 0.20db for Zirconia Sleeve		
		Sleeve/Ferrule Withdrawal Force- SC Adapter 2.0N ~ 5.9N		
3	**FIBER PATCH PANELS – RACK MOUNT – 24 port LIU Loaded – Single mode**			
	Characteristic	24 port Loaded LIU accommodate Duplex SC Single mode adapters.		

		Aluminum base material with powder coating for light mounting		
		can manage both splices and terminations		
		Should have aluminium Splice Tray & Cable Spool provision inside		
		Accessory kit consists of cable ties, mounting ear screw earthling and spiral wrap tube.		
		Front-Mounted Cable Saddles for jumper management		
		Can Include adapter panel for maximum 12 SC Duplex Terminations		
		Removable Rear & Front cover for better access to interior of LIU		
		Removable Rubber grommet aloow for pre-terminated fiber trunk installation, protects cable and minimizes dust build-up		
		Dimension: Metal Shelf - 410 x 310 x 42 mm (W X D X H)		
		Adapter: SC Duplex type -Adapters should have compact design & high precision.		
		which perform well under various circumstances & maintain good plug retention strength.		
		Telcordia, TIA/EIA, IEC compliance		
		Insertion Loss - < 0.20db for Zirconia Sleeve		
		Sleeve/Ferrule Withdrawal Force- SC Adapter 2.0N ~ 5.9N		
4	**Optical Fiber Pigtail – SC Type 1.5 Meter**			
	Features	Provide a field installable Single mode SC pigtails to terminate fiber optic cables from cable-to-cable, cable-to-equipment and equipment-to-equipment.		
		The connector must be field installable		
		Utilize a UPC polishing on the tip to provide high yield during installation.		
		Meet EIA and IEC standards for repeatability.		
	Insertion Loss (Max)	<0.3 db Max.		
	Mating Cycle	1000 Times		
	Return Loss	> 30 db		
	Connector ferrule	Ceramic		
	Retention strength	100N		
	Operating Temp.	-40 deg C. to +85 deg.c		
	buffer diameter	900um Tight buffer		
	Types	SC Type Simplex		
5	**Optical Fiber Equipment Cords (minimum 1/2/3 meter) – SC-SC/ SC-LC**			
	Features	Optical fiber patch leads shall comprise of Simgle mode 9/125µm fiber with SC-SC / SC-LCfiber connectors terminated at each end. The optical fiber patch leads shall comply with the following specifications:		
		Optical Fiber – Corning Single mode - OS1		
		Connector: Zirconia ceramic ferrule		
		Pre-radiuses and pre-polished ferrule		
		Duplex Type		
		Color-coded yellow for Single mode		
		Insertion Loss - <0.3 db (max)		
		Cable: 9/125, SM		
		Repeatability - < 0.2 db		
		End-Face Radius of curvature - 7mm < R < 25mm		
		Return loss: >/= 50dB for UPC		
		Durability – 1000 mating cycle		
		Working Temp: -40 deg. C to + 85 deg. C		
		Length: 1/2/3 Meter		

Annexure 5

RACK

S.N	Specifications	Compliance Remarks	Yes/No
1	**42U FLOOR MOUNT NETWORK RACK**		
	Racks manufactured out of steel sheet punched, formed, welded and Powder coated		
	Rack should be from ISO 9001,ISO14001 certified OEM		
	Standard for Racks configuration will be welded frame with side panel and vented top cover		
	Rack should have Front Convex Perforated Door and Dual Perforated door at Rear.		
	Rack should have 2 no's of removable side panel with slam latch.		
	Rack should have provision to mount racks on Floor		
	Rack should be 42U (1U = 44.45 mm) in Height.		
	It should be 800MM Wide,1000MM Deep and Overall height 2112		
	MM. Rack should Conforms to DIN 41494 or Equivalent EIA /ISO /		
	EN Standard Rack should have Adjustable mounting depth,		
	Rack 4 No Adjustable, 19” verticals with Punched 9mm Square Hole and Universal 12.7mm-15.875mm15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
	Rack should have Numbered U positions		
	Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General		
	industrial standard for equipments)		
	Powder coated finish with seven Tanks pretreatment process		
	meeting IS Rack should have Proper Grounding & Bonding		
	Rack should have Fan module Mount Provision on top		
	Cover Rack should have Fan tray with 4 no's 90 CFM Fan		
	Rack should have 1 No Fixed shelf with 725mm depth for mounting NON Rack mountable Equipments		
	Rack should have 1 No Horizontal Cable Organizer with Plastic Loops.		
	Rack should have provision for cable entry Exit from Both top & Bottom.		
	PDU VERTICAL 5/15AMP WITH 12 SOCKET WITH 32AMP MCB WITH 3MTR CABLE – 2 Nos		
	Rack should have 2 Packet of mounting hardware, Pack of 20.		
	Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General industrial standard for equipments)		
2	**6U WALL MOUNT NETWORK RACK**		
	Racks manufactured out of steel sheet punched, formed, welded and Powder coated		
	Rack should be from ISO 9001,ISO14001 certified OEM		
	Standard for Racks configuration will be welded frame and vented top		
	cover Rack should have Front Toughened Glass Door with lock & Key		
	Rack should be 6U in Height, 550MM		
	Width, 500MM Depth. Overall Height 347mm		
	Rack should Conforms to DIN 41494 or Equivalent EIA		

	/ISO / EN/CEA Standard		
	Rack should have Adjustable mounting depth,		
	Rack 4 No Adjustable, 19” verticals with Punched 10mm Square Hole and Universal 12.7mm-15.875mm15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.		
	Rack should have Numbered U positions,		
	Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General industrial standard for equipments)		
	Powder coated finish with seven Tank pretreatment process		
	meeting IS Rack should have Proper Grounding & Bonding		
	Rack should have one catiliver self		
	Rack should have Fan module Mount Provision on top Cover with 2 fans		
	1Ph, 230V, 16A, 2U standard rack mount power distribution unit with 6 X Indian Round Pin 5/15A, Inlet Plug type 16A Indian Round Pin, 16A MCB - PDU Rating 3.6 Kva		
	Rack should have 1 No Horizontal Cable Organizer with Plastic Loops.		
	Rack should have provision for cable entry Exit from Both top & Bottom.		
	Rack should have 1 Packet of Mounting hardware, Pack of 20		

Annexure 6

Sl No	General Terms and Conditions	Compliance Yes / No
1	All the items quoted in this tender should have minimum 5yrs of Warranty or Limited life time warranty for the active components . Switches and Fiber modules must be from the same OEM (Compatible modules will be rejected)	
2	MAF and warranty letter from OEM in original letter head must be submitted along with the tender.	
3	The bidder should be OEM certified partner. Bidder shall enclose certificates from the respective manufacturers (OEM) that bidder is authorized to quote for the offered product and that the manufacturers will support the delivery and subsequent warranty.	
4	All Passive components should be from one single vendor to ensure optimum performance	
5	Onsite technical support should be provided for VLAN configuration on switches as per the NIELIT requirements.	
6	Bidder should have successfully done the installation of similar work mentioned in the quotation notice, for minimum 15 Lakh in the year of 2015-16 and 2016-17 in Government Offices . Documentary evidence to this effect (purchase order / Completion certificate) should be provided with the tender	
7	Bidder should provide a detailed technical compliance statement and datasheet for the offered product.	
8	Bidder should clearly indicate the part nos. of the deliverable items .	
9	OEM & Bidder should have ISO 9001:2008 Certification for Quality Management System	
10	OEM should have ISO 14001:2004 Certification for Environmental Management System	
11	OEM haveAuthorized Service Centre and Office in Kerala (Documents for proof should be submitted)	
12	OEM have 9 x 7 Toll Free Technical Support Number (Documents for proof should be submitted)	
13	OEM have warehouse in India for immediate availability of products . (Documents for proof should be submitted)	
14	OEM have India-based operation at least for last 15 years (Documents for proof should be submitted)	
15	Tender submitted without supporting documents like warranty , authorization letter , compliance statement , data sheet and eligibility certificates will not be considered for evaluation.	