



**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](mailto:purchase@calicut.nielit.in) Web: <http://nielit.gov.in/calicut>  
Phone: 0495-2287266

**LIMITED TENDER ENQUIRY**

Ref. No.: 2(1216)/2020-21/3DPAM/DCSETUP

Date: 10.11.2020

To

**DUE DATE: 30.11.2020**

**TENDER OPENING DATE: 02.12.2020 TIME: 2:00 PM**

1. Quotations are invited for the supply of the items as per Annexure-I.
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. Quotation will be opened at the above address on the date and time mentioned above. If this day becomes a holiday, the same will be opened on the next working day. The Tenderer or his authorized representative can be present during tender opening.
4. The quotations should be valid for acceptance for a period of **sixty days** from the due date
5. Quotations will not be accepted by Fax, Email or any such electronic data transfer form.
6. The quotations should be for goods exactly conforming to our requirements and specifications.
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. Quotation 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.1,00,000/- (Rupees one 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 (EMD) for Rs.7,500/-** 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. Proof of Deposit of EMD amount with Tenderer's Bank Account No. and IFSC No. should be submitted with the Quotation. Alternatively, the Tenderer may choose to submit EMD/Bid Security Declaration, as given in **Annexure-II**, subject to the conditions stipulated therein.

Yours faithfully,

**Purchase In-Charge  
For Executive Director**

Encl: Annexure

**ANNEXURE-I**

Your Quotation No.

Date:

1	Description of item(s)	Data Centre Setup	Quantity-1No.
2	<b>Specifications &amp; Quantity :</b> <b>As per Specifications attached.</b>		
3	Price per unit in Rs. (in figures & words)		
4	Total Price in Rupees (in figures & words)		
5	Delivery Period		
6	Terms of Delivery		
7	Taxes, Duties & any other statutory levies or charges		
8	Transportation, Insurance, Packing & Forwarding charges, if any		
9	Discount/off etc., if any		
10	GST Registration No.		
11	Payment Terms		
12	Validity of Tender		
13	Warranty		
14	EMD Amount and Payment details		
15	Bank Account No. with IFSC Code		
16	Any other remarks		
17	Signature of the Tenderer with Name and Date		
18	Address with Email ID & Mobile No.		
19	Central Public Procurement Portal ( <a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a> ) 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](http://www.eprocure.gov.in)
- (3) Please register at [www.eprocure.gov.in](http://www.eprocure.gov.in) and intimate login details without fail. Watch website for regular updates.



**Data Centre setup FSPrime – 3DPAM****List of items**

(Pl ref detailed specifications attached)

SI No	DESCRIPTION	UNIT	QTY
1.	L2 Managed 24 Port 10 /100/1000 BASE-T, 4 X100/1000 BASE-X SFP unpopulated mini-Gbic ports, 1 x Serial (console port)	Nos.	2
2.	19" , 9U 550X600 Rack wall Mountable ,Fan 4Nos, ACDB 6 x 5Amps Socket with 3mtr chord, Cable Manager 3Nos , Hardware Kit ,glass door , Lock & Key	Nos.	1
3.	Intel PRO/1000 Pt Dual Port Server Adapter	Nos.	5
4.	CAT 6 UTP Cable 4 pair	Mts.	915
5.	CAT 6 Information Outlet with Dual port-shuttered FP	Nos.	15
6.	CAT 6 UTP Keystone 24 port Patch Panel loaded	Nos.	2
7.	CAT 6 Patch chord-2mtr	Nos.	30
8.	CAT 6 Patch chord-1mtr	Nos.	30
9.	100 X 80mm Cable Manager	Mts.	34
10.	PVC Casing / Conduit 50mm ISI standard	Mts.	4
11.	PVC Casing / Conduit 32mm ISI standard	Mts.	4
12.	PVC Casing / Conduit 25mm ISI standard	Mts.	4
13.	UTP Cable Laying	Mts.	915
14.	Cable Manager Laying (100x80 mm)	Mts.	34
15.	PVC Casing / Capping Laying (50mm)	Mts.	4
16.	PVC Casing / Capping Laying (32mm & 25mm)	Mts.	8
17.	Rack Fixing	Nos.	1
18.	Information Outlet Termination	Nos.	30
19.	Patch panel Termination	Nos.	2
20.	Back Box Fixing	Nos.	15

The quantity of items with serial numbers 1 to 3 are fixed. All other items may vary according to site conditions. The payment for those variable items will be based on the actual quantity/labour used.

10/11/20

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## Detailed Specifications

### L2 Managed Switch

S.No		DESCRIPTION	Complied (Yes/No)
1	General	Minimum 24x GE RJ45 and 4x GE SFPs.	
2		One RJ-45 Serial console port	
3		1 RU Rack-Mount Appliance	
4		Switching capacity - minimum 56 Gbps	
5		Packet per second capacity -minimum 83 Mpps	
6		Minimum 8K MAC address storage	
7		Should support 4000 VLANs	
8		Should support min DRAM-256 MB DDR3, maximum to be specified	
9	Layer 2 Requirements	Jumbo frames and link auto-negotiation	
10		Spanning Tree Protocol MSTP native, and backwards compatible with RTSP, STP and STP Root & BPDU Guard	
11		Support for Edge Port / Port Fast	
12		IEEE 802.1AX Link Aggregation	
13		IEEE 802.1q VLAN tagging, IEEE 802.1ab Link Layer Discovery Protocol (LLDP), IEEE 802.1ab LLDP-MED,DHCP-Snooping	
14		Support for Unicast/Multicast traffic balance over trunking port for dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac	
15		Support for IEEE 802.3x Flow Control and Back-pressure, IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3z , 1000Base-SX/LX, IEEE 802.3ab 1000Base-T	
16	Authentication Requirements	Admin Authentication Via RFC 2865 RADIUS	
17		Support 802.1x port-based authentication	
18		Support 802.1x MAC-based authentication, IEEE 802.1x MAC Access Bypass (MAB)	
19		Support IEEE 802.1x Guest and Fall back VLAN	
20		Support IEEE 802.1x Dynamic VLAN Assignment	
21		Support for local user database and can integrate with LDAP, RADIUS, TACACS+ servers	
22	Management	Telnet, SSH, HTTP,HTTPS with IPv4 and IPv6 Management	
23		Support SNMP v1, v2c and v3	
24		Software download/upload: TFTP/FTP/GUI	
25		Management via both, GUI and CLI	
26	Environment	Power Required :100–240V AC, 50–60 Hz	
27		Operating Temperature : 32–104°F (0–40°C)	
28		Humidity : 10–90% non-condensing	
29	Certification	FCC, CE, RCM, VCCI, BSMI, UL, CB, RoHS2	
30	Warranty	3 Years and Limited Life Time support	

**Category 6 UTP, 4 Pair**

S.No		DESCRIPTION	Complied (Yes/No)
1	Features	Compliant with ANSI/TIA/EIA-568-C.2	
2		Consists of 4 pair, 23 AWG, UTP.	
3		Cable shall be UL <input type="checkbox"/> Listed	
4	Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine/ full separator. Half shall not be accepted.	
5		Conductor Solid bare Copper	
6		Insulation :High Density Polyethylene	
7		Jacket PVC	
8		Outer Diameter 6.1 mm nominal	
9		Temperature Range -20° to +70°C	

**Face plate**

S.No		DESCRIPTION	Complied (Yes/No)
1	Features	DUAL square plate , UTP Jack	
2		Screw hole covers – to be supplied with plate	
3		Face Plate with shutter	

**Information outlet**

S.No		DESCRIPTION	Complied (Yes/No)
1	Features	Category 6, TIA568 C.2 , 100 <input type="checkbox"/> , 22-26 AWG	
2		Insulation displacement connectors (IDC)	
3		Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limits.	
4		Be constructed of high impact, flame-retardant thermoplastic with color and icon options for better visual identification.	
5		Shutter is on face plate	
6		Insertion force: 20N max ( IEC 60603-7-4 )	
7		IDC : Housing PC + glass fiber , UL 94 V-2	
8		568A/B configuration	
9		Information outlet (RJ45 jack) should be covered under ETL Verification program for compliance with TIA568.C.2 Operation Temp: -10 C to 60 C	
10	Mechanical Jack Connector	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent	
11		Operating Life: Minimum 750 insertion cycles	
12		Contact Material: Copper alloy	
13		Contact Plating: 50 $\mu$ inches gold on plug contact area	
14		Plastic Housing: Polycarbonate + glass fiber UL94V-2 rated	
15		IDC Contact Plating: Phosphor bronze with tin plated	

**Jack panel**

S.No		DESCRIPTION	Complied (Yes/No)
1	Features	Be made of powder coated steel, in 24 port configurations.	
2		Allow for a minimum of 200 re-terminations without signal degradation below standards compliance limit.	
3		Have port identification numbers on the front of the panel.	
4		Should have self adhesive, clear label holders (transparent plastic window type) and white designation labels with the panel, with optional color labels / icons.	
5		IDC: Suitable for 22-26 AWG stranded and solid wire compatible with both 110 & Krone punch down tools	
6		Each port / jack on the panel should be individually removable on field from the panel.	
7		Improved cable management with optional cable management bar	
8		The Cat-6 transmission performance is in compliance with the ANSI/TIA/EIA 568C.2 standard	
9	Mechanical Characteristics - Jack Connector	Plastic Housing: ABS , UL94V-0 rated	
10		Operating Life: Minimum 750 insertion cycles	
11		Contact Material: Copper Alloy	
12		Contact Plating: 50μ" Gold plated on plug contact area	
13		Contact Force: 20N max (IEC 60603-7-4)	
14		Plug Retention Force: 15 lb.	
15	IDC Connector	Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent	
16		IDC cap : ABS, UL 94V -0	
17		Contact Material: Copper Alloy	
18		IDC Contact Plating: Phosphor bronze with tin plated	
19		Insertion Force: 20N max ( IEC 60603-7-4 )	
20		Wire Accommodation: 22-26 AWG solid	

**Mounting cords**

S.No		DESCRIPTION	Complied (Yes/No)
1	Features	Category 6 Equipment cords	
2		Comply with proposed ANSI/TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100 Category 6 Cabling.	
3		Equipped with modular 8-position modular plugs	

		on both ends, wired straight through with standards compliant wiring.	
4		Should have 50 micro inches of gold plating over nickel contacts.	
5		Should be covered by ETL verification program for compliance with TIA 568.C.2	
6	Mechanical Cable	Conductor size: 24 AWG stranded bare copper	
7		Max O.D.: 5.6mm (.22")	
8		Jacket: PVC UL-94V-O	
9		Temperature range: -10oC to +80oC	
10	Mechanical Characteristics Plug	Operating life: Minimum 750 insertion cycles	
11		Contact blade: Phosphor bronze	
12		Contact plating: 50μ" Gold	
13	Electrical Characteristics - Plug	Dielectric withstanding voltage: 500 V AC	
14		Insulation resistance: 35 M Ohm (Max)	
15		Operating temperature: -10oC to 80oC	

### **Rack**

<b>S.No</b>		<b>DESCRIPTION</b>	<b>Complied (Yes/No)</b>
1	Features	Racks manufactured out of steel sheet punched, formed, welded and Powder coated	
2		Rack should be from ISO 9001,ISO14001 certified OEM	
3		Standard for Racks configuration will be welded frame and vented top cover	
4		Rack should have Front Toughened Glass Door with lock & Key	
5		Rack should be 9U in Height, 550 MM Width, 600 MM Depth. Overall Height 347mm	
6		Rack should Conform to DIN 41494 or Equivalent EIA	
7		/ISO/EN/CEA Standard	
8		Square Hole and Universal 12.7mm-15.875mm alternating hole pattern offers greater mounting flexibility, maximizes usable mounting space.	
9	Characteristics	Rack should have Numbered U positions,	
10		Rack should have 100% assured compatibility with all equipments conforming to DIN 41494 (General industrial standard for equipments)	
11		Powder coated finish with seven Tank pre-treatment process.	
12		Rack should have Proper Grounding & Bonding	
13		Rack should have Fan module Mount Provision on top Cover with 2 fans	

14		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	
15		Rack should have 2 Nos Horizontal Cable Organizer.	
16		Rack should have provision for cable entry Exit from Both top & Bottom.	
17		Rack should have 1 Packet of Mounting hardware, Pack of 20	

### **Dual Port Server Adapter**

S.No		DESCRIPTION	Complied (Yes/No)
1.	Feature	Product Type – Dual Port Server Adapter – Intel	
2.		Warranty - Lifetime	
3.		Compatible with x4, x8, and x16 full-height PCI Express slots	
4.		Support for most network operating systems (NOS)	
5.		IEEE Standards:10BASE-T,100BASE-TX, 1000BASE-T	
6.		Processor Count :1	
7.		RAM Size: 128000 MB	
8.		Computer Memory Type: DRAM	
9.		Controller Processor: Intel82571GB	
10.		Graphics Card Interface: AGP	
11.		Wireless Type: 802.11b, 802.11a, 802.11g	
12.		U-Rack Size:1	
13.		Wiring: Category-5,UTP,4-pair	
14.		IEEE Support: 802.3ab*	
15.		Hardware Certifications: FCC B, UL, CE, VCCI, BSMI, CTICK, MIC	
16.		Connectors: Two RJ-45	

### **Terms & Conditions**

S No	Eligibility Criteria:	Complied (Yes/No)
	The Bidder/OEM should have/provide:	
1	All the active items quoted in this tender should have 3 Years of Warranty	
2	For Managed switches, Software Updates for seven years including OS and other software ( free )	
3	A letter from the OEM of the active and passive components; certifying that the agency has full back-end warranty support, and must be submitted along with the tender.	
4	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.	
5	Onsite Technical support should be provided for configuration of switches as per NIELIT requirements.	

*Handwritten signature*



6	Clearly specify the website address of the product for proof of specification and also submit copy of the proof of specification of each product.	
7	All Passive components should be from one single vendor to ensure optimum performance	
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 for Passives should have ISO 14001:2004 Certification for Environmental Management System	
11	OEM have Authorized Office in Kerala (Documents for proof should be submitted)	
12	OEM have 8 x 5 Toll Free Technical Support Number (Documents for proof should be submitted)	
13	OEM should have warehouse in India for immediate availability of products.(Documents for proof should be submitted)	
14	Bidder should have Authorized Office in Kerala (Documents for proof should be submitted)	
15	Pricing will be for actual quantity/labour used only.	
16	Supervisor from the firm should be present at the site during the whole period of work	



Sign of Authorized Signatory with Name & Seal

**Undertaking for EMD**  
(on the letterhead of Organization)

Date: .....

To  
The Executive Director  
NIELIT  
NIT Campus P.O.  
Kozhikode – 673601  
Kerala

**Subject: Undertaking as per GFR–2017, Rule 170(iii).**

Dear Sir,

We, the undersigned, offer to supply ..... in response to your Tender No. .... dated ..... We are hereby submitting our Bid/Quotation for the same. As a part of eligibility requirement stipulated in the said Tender documents, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our bid shall remain valid for 60 days from the date of submission and that we will not withdraw or modify our bid during the validity period.
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Security Deposit of 5% of the order value, as per terms stipulated in the Tender.
4. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as ineligible for said Tender and/or debarred from any **future bidding process of NIELIT for a period of minimum two years.**
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:  
Name and Title of Signatory (with seal):  
E-mail:  
Mobile No: