



NIELIT CALICUT
(Autonomous Scientific Society of Ministry of Electronics & Information Technology, Govt. of India)
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LIMITED TENDER ENQUIRY

By Speed Post
Date: **29.01.2020**

Ref. No.: 2(1149)/2019-20/AIDA-OCCR/LAN WIRING
To

DUE DATE: 11.02.2020

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. 25,000/- 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.**

Yours faithfully,

Purchase In-Charge
For Executive Director

Encl: **Annexure**

ANNEXURE TO ENQUIRY

Your Quotation No.

Date:

1	Name of item(s)	1) Supply, Installation and Commissioning of Gigabit - LAN Network & IP Camera 2) Managed Switch
2	Specifications & Quantity As per Specifications 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 / EMD Amount and Payment details	
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

Supply, Installation and Commissioning of Gigabit LAN Network & IP Camera

SI No	Requirements	Unit	Qty	Make & Model	Unit Rate
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.	3		
2 *	24 Port Unmanaged Switch	Nos.	6		
3 *	CAT 6 UTP Cable 4 pair	Mts.	5615		
4 *	CAT 6 Information Outlet with Single port-shuttered Face Plate	Nos.	202		
5 *	CAT 6 UTP Keystone 24 port Patch Panel loaded	Nos.	9		
6 *	CAT 6 Patch chord-2mtr	Nos.	174		
7 *	CAT 6 Patch chord-1mtr	Nos.	174		
8	100 X 80 Cable Manager	Mts.	4		
9	PVC Casing / Conduit 50mm ISI standard	Mts.	154		
10	PVC Casing / Conduit 32mm ISI standard	Mts.	700		
11	PVC Casing / Conduit 25mm ISI standard	Mts.	1050		
12	80 x 50 mm Steel coated pipe for Floor crossing	Mts.	84		
13	Valrack 19" 22U 600X600 Rack wall Mountable, Fan 4Nos, ACDB 6 x 5Amps Socket with 3mtr chord, Cable Manager 3Nos, Hardware Kit ,glass door , Lock & Key	Nos.	1		
14	Valrack 19" 6U 500X500 Rack wall Mountable, Fan 4Nos, ACDB 6 x 5Amps Socket with 3mtr chord, Cable Manager 3Nos , Hardware Kit, glass door, Lock & Key	Nos.	2		
15	19" , 6U 500X500 Rack wall Mountable ,Fan 4Nos, ACDB 6 x 5Amps Socket with 3mtr chord, Cable Manager 3Nos , Hardware Kit ,glass door , Lock & Key	Nos.	1		
16	UTP Cable Laying	Mts.	5615		
17	Cable Manager Fixing	Mts.	4		
18	PVC Casing / Capping Laying 50mm	Mts.	154		
19	PVC Casing / Capping Laying (32mm & 25mm)	Mts.	1750		
20	80 x 50 mm Steel coated pipe fixing including floor chipping and plastering	Mts.	84		
21 *	Rack Fixing (22 U Rack)	Nos.	1		
22 *	Rack Fixing (6 U Rack)	Nos.	3		
23 *	Information Outlet Termination	Nos.	202		
24	Patch panel Termination	Nos.	10		
25	Back Box Fixing	Nos.	202		
26	Testing and Identification	Nos.	142		
27	D-Link DCS -F5612 2 MP Mini IR Dome Network Camera (With 5 Year Warranty), or other reputed make	Nos.	16		
28	D-Link DNR-5216 H.265&H.264 codec decoding Lite Network video recorder upto 16 channel IP camera input Support 2 SATAIII HDDs ports upto 8 TB capacity for each HDD. (with 5 Year Warranty), or othe reputed make	Nos.	1		

29	WD / Seagate 4 TB HDD	Nos.	2		
30	Camera Fixing	Nos.	16		
31	NVR Installation and configuration	Nos.	1		

*** Detailed spec attached.**

General Terms & Conditions attached

Quantity of all passive items and labour may vary according to actual site requirements. The payment for the same will be based on actual quantity/measurements used in running meters.

Sign of Authorized Signatory with Name & Seal

Detailed Specifications (Minimum)

Managed Switch (Sl. No. 1)

S. No		REQUIREMENTS	Compliance (Yes/No)
1	General Requirements	Should have minimum 24x GE RJ45 and 4x GE SFPs.	
2		Should have a RJ-45 Serial console port	
3		The form factor should be 1 RU Rack-Mount Appliance	
4		Switching capacity should be minimum 56 Gbps	
5		Packet per second capacity should be minimum 83 Mpps	
6		Should support 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	Should support Jumbo frames and link auto-negotiation	
10		Should support Spanning Tree Protocol MSTP native, and backwards compatible with RTSP, STP and STP Root & BPDU Guard	
11		Should support 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		Should support Unicast/Multicast traffic balance over trunking port for dst-ip, dst-mac, src-dst-ip, src-dst-mac, src-ip, src-mac	
15		Should support 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		Should support 802.1x port-based authentication	
18		Should support 802.1x MAC-based authentication, IEEE 802.1x MAC Access Bypass (MAB)	
19		Should support IEEE 802.1x Guest and Fallback VLAN	
20		Should support IEEE 802.1x Dynamic VLAN Assignment	
21		Switch should support local user database and can integrate with LDAP, RADIUS, TACACS+ servers	
22	Management	Should support Telnet,SSH, HTTP,HTTPS with IPv4 and IPv6 Management	
23		Switch should support SNMP v1, v2c and v3	
24		Software download/upload: TFTP/FTP/GUI	
25		Should be managed 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	Limited Life Time	

Unmanaged Switch (sl.no.2)

S. No		DESCRIPTION	Compliance (Yes/No)
1	General Requirements	Should have minimum 24x GE RJ45.	
2		The form factor should be 1 RU Rack-Mount Appliance	
3		Switching capacity should be minimum 48 Gbps	

4	Features	8K MAC Address Table	
5		IEEE 802.3 Ethernet , 802.3u Fast Ethernet , 802.3x Flow Control , 802.3ab Gigabit Ethernet , 802.1p Priority	
6	Environment	Power Required :100–240V AC, 50–60 Hz	
7		Operating Temperature : 32–104°F (0–40°C)	
8		Humidity : 5–95% non-condensing	
9	Certification	FCC Class A , CE Class A	
10	Warranty	Limited Life Time	

Category 6 UTP, 4 Pair (sl.no.3)

S. No		DESCRIPTION	Compliance (Yes/No)
1	Features	Category 6 Unshielded Twisted 4 pair 100Ω cable shall be compliant with ANSI/TIA/EIA-568-C.2 Additional Transmission Performance Specifications for 4-pair 100Ω Category 6Cabling.	
2		Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.	
3		The 4 pair Unshielded Twisted Pair cable shall be UL 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		Conductor Diameter 0.56±0.005mm (23 AWG)	
7		Insulation :High Density Polyethylene	
8		Jacket PVC	
9		Outer Diameter 6.1 mm nominal	
10		Temperature Range -20° to +70°C	

FACE PLATE (sl.no.4)

S. No		DESCRIPTION	Compliance (Yes/No)
1	Features	Single & DUAL square plate, Quad in Rectangular shape	
2		Write on labels in transparent plastic window – supplied with plate	
3		Screw hole covers – to be supplied with plate	
4		Face Plate with shutter	
5		Should support variety of jacks – UTP	

PATCH PANEL (sl.no.5)

S. No		DESCRIPTION	Compliance (Yes/No)
1	Features	Should be made of powder coated steel, in 24 port configurations.	
2		Should 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	

PATCH CORDS (sl.no.6&7)

S. No		DESCRIPTION	Compliance (Yes/No)
1	Features	Category 6 Equipment cords	
2		The work area equipment cords shall, at a minimum comply with proposed ANSI/TIA/EIA-568-C.2 Commercial Building Cabling Standards Transmission Performance Specifications for 4 pair 100Ω 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 (sl.no.21&22)

S.No		DESCRIPTION	Compliance (Yes/No)
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 6U/9U/12U/15U/22U in Height, 550MM Width, 600MM 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-15.875mm15.875mm 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 pretreatment process meeting IS	
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 1 No 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	

INFORMATION OUTLET (sl.no.23)

S. No		DESCRIPTION	Compliance (Yes/No)
1	Features	Category 6, TIA568 C.2	
2		All information outlets for 100Ω, 22-26 AWG copper cable shall: Use 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 μinches gold on plug contact area	
14		Plastic Housing: Polycarbonate + glass fiber UL94V-2 rated	
15		Operating Life: Minimum 200 Re-terminations	
16		IDC Contact Plating: Phosphor bronze with tin plated	

Sign of Authorized Signatory with Name & Seal

Terms & Conditions

Sl. No	Eligibility Criteria:	Complies (Yes/No)	Remarks/Ref
	The Bidder/OEM should have/provide:		
1	All the active items quoted in this tender should have Limited Life Time Warranty for the active components		
2	Free Software Updates for seven years including OS and other software		
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	Clearly specify the website address of the product for proof of specification and also submit copy of the proof of specification of each product.		
6	All Passive components should be from one single vendor to ensure optimum performance		
7	Bidder should clearly indicate the part nos. of the deliverable items .		
8	OEM & Bidder should have ISO 9001:2008 Certification for Quality Management System		
9	OEM for Passive should have ISO 14001:2004 Certification for Environmental Management System		
10	OEM have Authorized Office in Kerala (Documents for proof should be submitted)		
11	OEM have 8 x 5 Toll Free Technical Support Number (Documents for proof should be submitted)		
12	OEM have warehouse in India for immediate availability of products .(Documents for proof should be submitted)		
13	OEM have India-based operation at least for last 10 Years (Documents for proof should be submitted)		
14	Bidder have India-based operation at least for 10 Years (Documents for proof should be submitted)		
15	Bidder should have Authorized Office in Kerala (Documents for proof should be submitted)		
16	Pricing will be for actual quantity/labour used only.		
17	Supervisor from the firm should be present at the site during the whole period of work		