



राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान (रा.इ.सू.प्रौ.सं)  
National Institute of Electronics and Information Technology (NIELIT)

(An Autonomous Scientific Society of Ministry of Electronics and Information Technology (MeitY), Govt. of India)

**गुवाहाटी केंद्र/Guwahati Centre**

वित्तीय भवन, असम वित्तीय निगम भवन, प्रथम एवं द्वितीय तल, मो. शाह मार्ग, पलटन बाजार, गुवाहाटी- 781008  
Vittiya Bhavan, Assam Financial Corporation Building, 1<sup>st</sup> & 2<sup>nd</sup> Floor, Md. Shah Road, Paltan Bazar, Guwahati -781 008

दूरभाष/Phone: +91-361-2730269) ई-मेल/E-mail : [guwahati@nielit.gov.in](mailto:guwahati@nielit.gov.in)

वेबसाइट/Website: <https://www.nielit.gov.in/guwahati>

**Tender No. 06/57/2021/GHY/P&S/eProcurement/1480(06-06-22) Dated: 30/09/2022**

**Notice Inviting Tender**

NIELIT Guwahati invites sealed tenders from the reputed experienced firm for supply & installation of Local Area Network (LAN) at Jorhat EC of NIELIT Guwahati at the following location:

**NIELIT JORHAT Extension Centre  
Rowriah, Mouza: Rowriah  
Jorhat-785005**

The Tender Documents can be viewed and downloaded from the websites <https://eprocure.gov.in/epublish/app>, <https://nielit.gov.in/guwahati>, w.e.f. 01/10/2022 at 02.00 PM onwards. The tender closes on 14/10/2022 at 02.00 PM and will be opened on 17/10/2022 at 03:00 PM at NIELIT Guwahati, AFC Campus, Vittiya Bhavan MD Shah Road, Paltan Bazar, Guwahati – 781 008. The estimated value of the work is Rs. 06.26 Lakhs.

-Sd/-  
**Director**  
NIELIT Guwahati

**Tender No. 06/57/2021/GHY/P&S/eProcurement/1480(06-06-22) Dated: 30/09/2022**

**TENDER DOCUMENT FOR SETTING UP OF  
LOCAL AREA NETWORK (LAN) at Jorhat EC of NIELIT GUWAHATI**

## DOCUMENT CONTROL SHEET

<b>Tender No:</b>	<b>Tender No.</b> <b>06/57/2021/GHY/P&amp;S/eProcurement/1480(06-06-22)</b> <b>Dated: 30/09/2022</b>
<b>Name of Organization</b>	National Institute of Electronics & Information Technology (NIELIT), Guwahati
<b>Date of Issue/Publishing</b>	01/10/2022
<b>Document Download/Sale Start Date</b>	01/10/2022
<b>Name Of The Work</b>	Supply & Installation of Local Area Network at Jorhat Extension Centre(EC) of NIELIT Guwahati
<b>Time Of Completion</b>	<b>90 (Ninety)</b> days from date of issue of order.
<b>Tenders To Be Submitted at</b>	NIELIT Guwahati, Paltanbazar, Guwahati-781008
<b>Estimated cost</b>	Rs 06.26 Lakhs
<b>Earnest Money Deposit (EMD)</b>	Exempted
<b>Technical Specifications</b>	ANNEXURE - I
<b>Rate Sheet</b>	ANNEXURE - II
<b>Venue of Opening of Tender</b>	Conference Room, NIELIT Guwahati
<b>Last date of submission of Tender document</b>	<b>14/10/2022</b> at 2:00 PM.
<b>Date &amp; Time Of Opening Tender</b>	<b>17/10/2022</b> at 3:00 PM
<b>Address for Communication</b>	Director, NIELIT Guwahati Md Shah Raod, AFC Buliding Paltanbazar, Guwahati-781008

**(IN FIRM'S LETTER HEAD)**

**LETTER OF ACCEPTANCE TO BE SUBMITTED IN THE BID.**

To: The Director  
NIELIT Guwahati, Paltanbazar  
Guwahati – 781 008

Sub: Acceptance of Terms and conditions of tender.

Ref: **Tender No. 06/57/2021/GHY/P&S/eProcurement/1480(06-06-22)**  
**30/09/2022**

**Dated:**

Sir,

Having examined in details of the above tender documents relating to the works and having acquired all the requisite information affecting the tender invited by you, I / We ..... hereby agree to all terms and condition of the contract [as laid down in the tender document(s)]. I/We also agree that the printed term(s) and condition(s) if any at the back of our quotation form and / or any other paper enclosed are not applicable.

I/We undertake to complete the whole works within the period specified in the tender. In this connection we are providing here with the following information.

1. **Firm Registration** certificate.
2. **Proof of address** of the firm.
3. In case bidder is a Authorised Dealer/ Distributor,
  - a. Proof of Dealership/Distributorship from parent Company.
  - b. Authorization certificate from parent company authorizing participation in the tender.
4. **Annual Turnover** of the last financial year:  
(Copies of Balance Sheet and IT return enclosed)
5. List of Clients at different states of NE region for the last 3(three) years along with copies of relevant **work order** and **timely completion certificate**.
6. Details of EMD paid  
Amount..... Draft No..... Bank.....
7. GST Registration No..... PAN No.....  
(Copy Enclosed)
8. Acceptance of price bid format enclosed.
9. **Affidavit / Power of Attorney** stating the capacity and the authority of the person signing on behalf of the firm enclosed.
10. Any other relevant document.

(Signature with Seal)

(Name & Designation in block letters)

## INSTRUCTION REGARDING TENDER

**Note: Bidders are requested to note that non-compliance of the following instructions are liable to render their tender being rejected.**

1. Bidders should put **endorsement** on each page of the tender documents as token of perusal.
2. Bidder shall provide **documentary evidence** of their experience in similar supply and value in the NE region during the last 3 (three) years.
3. The bidder should make no alterations and / or addition to the tender papers. **Only typed/ Printed quotations will be accepted.**
4. The Tender should be submitted to NIELIT Guwahati, Paltanbazar office only.
5. EMD exempted.
6. Items are to be quoted in Indian Rupees only.
7. No Quotation will be accepted by fax, e-mail, telex, or any other such means.
8. Acceptance should be given as per enclosed format without any alterations.
9. All rates quoted will be considered to be inclusive of all taxes and freight of delivery place.
10. The quoted rates shall have to be valid for a period of 1(one) year from the date of opening of tender.
11. Bidders should submit all supporting documents in favour of information submitted in the tender. Further, copies of all statutory licenses and documents like PAN, GST etc. should be enclosed. All documents submitted should be serially numbered.
12. Partial or selective quotes, conditional tenders would be summarily rejected.
13. NIELIT Guwahati shall be under no obligation is liable to accept the lowest quotation. Further the Director, NIELIT Guwahati reserves the right to reject all or any of the tenders without assigning any reasons.

## GENERAL TERMS AND CONDITIONS OF CONTRACT

This tender notice shall be governed by following terms & conditions:

1. **ELIGIBILITY-** To be eligible to participate in the tender, a Bidder should be: -
  - a. Experienced in completion of similar works (Copy of satisfactory completion certificate compliance with value of work order to be enclosed) for minimum 03 (three) work orders as detailed in 1.b below.
  - b. The bidder should have completed at least 3 assignments for implementation of LAN with minimum 50 nodes. OR The work where requirement is for implementation/ up gradation/ maintenance of LAN in data centre for any State/Central department /organisation/ PSUs.- (Copy of complete work order/ agreement/purchase order and successful completion certificate from the client. Certificate from client should clearly state that the scope of work was minimum 50 nodes).
2. All components & equipments including cable must be ISI/IEEE standard.
3. **NIELIT Guwahati** may allow extension of time if the works are delayed by reasons beyond the control of the Contractor.
4. **F.O.R. Rates:** The rates quoted should be F.O.R. location of the LAN and should be inclusive of freight/packing/forwarding and other incidental charges.
5. Quotation with overwriting, alternations will not be considered. **Only typed/ printed quotations** will be accepted.
6. **Validity of Rate:** The rates quoted have to be valid up to 1 (one) year from the date of opening of Commercial bid.
7. **Warranty:** Warranty period shall have to be for at least 1(one) year from the date of certification. Performance Bank Guarantee @1% of the Work Order Value is required to submit by the bidder on award of contract for a period of 13 Months from the date of commissioning and certification.
8. **DEDUCTIONS-** Statutory taxes and duties will be deducted at source as per government norms.
9. **Liquidated Damages:** If the Seller fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever.
10. **Payment Terms:** Bills can be submitted on successful execution of Work Order along with certification from concerned official of NIELIT for release of payment. No advance payment shall be made under any circumstance.

11. Details of the Taxes as applicable should be mentioned in the quotation clearly. In case of any ambiguity, prices will be considered as inclusive of all taxes.
12. In case of any dispute on account of deviation of the terms and conditions, the responsibility will be of suppliers and the decision of the Director, NIELIT Guwahati shall be binding and final.
13. **DISPUTES:** All disputes lie within the jurisdiction of Guwahati High Court.
14. The Bidder is liable to compensate NIELIT Guwahati for any loss suffered. All penalties imposed should be deposited by the Contractor immediately or may be deducted from any amount due to the Contractor.
15. The Tender is likely to be rejected because of non-fulfillment of any of the above terms.
16. The detailed specifications of the goods are as per **ANNEXURE-I** attached.
17. The Rate Sheet is placed at **ANNEXURE – II**.
18. **Right to accept/ reject:** The Director, NIELIT Guwahati reserves the right to reject all or any tender without assigning any reason thereof.
19. CAT6 UTP Cable Laying installation works will be measured based on the actual usages of the Cable.
20. PVC Casing capping need to fix in cable laying works wherever possible and where the scope is available. Areas where the works of installation of PVC Capping is not possible is exempted for fixing of the Casing. However, the works will be measured as a whole under the Item "Cat6 UTP Cable laying with PVC Casing capping" as a single unit rate as per Annexure-II. Only Cable length will be considered for measurement for each individual cable irrespective of Cashing capping and Nos. of cable inserted in a single cashing.

## Annexure I

1. Bidder need to submit the compliance of each items.
2. Bidder has to submit tender specific OEM Authorization.
3. Datasheet for all product need to submit.
4. Product certificate as per technical specifications required to submit.

### Items/Accessories and Installation Works details:

Sr.No	Items	Quantity	Product Quoted with model and Brand Name
1	Information Outlet: Cat6 Single RJ45 UTP Port with Box	161	
2	Cat6 Patch Cord 1mtr	161	
3	Cat6 Patch Cord 2mtr	110	
4	6U Mounting Rack with front Glass door and following accessories Ac mains channel (5x5A) socket and a switch IU cable manager	5	
5	12U Mounting Rack with front Glass door and following accessories Ac mains channel (5x5A) socket and a switch IU cable manager	1	
6	RJ45 Connector Cat6 (100 Jack Per Box)	1	
7	24Port 10/100/1000 Ethernet Switch	11	
8	Ethernet based router with 802.11ac Dual Band Gigabit	1	
9	Patch Panel Cat6 - 24 Port	9	
10	Cat6 UTP Cable 305m	8	
11	Indoor Access Point	2	
	<b>Installation Work</b>		
1	Cat6 UTP Cable laying with PVC Casing capping( Cost of PVC Casing is included with this job)	2440	
2	Patch Panel fixing and termination charges including Switch Fixing	9	
3	Rack fixing and dressing and Switch Assembly	6	
4	Fixing of IO with Surface Mount Box	161	
5	Installation of Indoor Access Point	2	

### TECHNICAL SPECIFICATIONS

#### Technical Specification for 24Port Gigabit Switch

Sr.No	Technical Specifications	Compliance (Yes/No)
1	24Port 10/100/1000Mbps Port Rack mountable, 48Gbps bandwidth, 512KB Buffer Memory, Jumbo frame @ 9216bytes, MAC address will be 8K, Latency (using 64-	



	byte packets) <4.7 μsec, 802.3ab 1000Base-T Gigabit Ethernet, 802.3u 100Base-TX Fast Ethernet, 802.3i 10Base-T Ethernet, 802.3x Flow control, 802.1p priority QoS and honors DSCP tags, 802.3CSMA/CD, 802.3az Energy Efficient Ethernet, Operating Temperature 0° to 40°C, Storage temperature -20° to 70°C, 3 year warranty	
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### Technical Specification for Wireless Router

Sr.No	Technical Specifications	Compliance (Yes/No)
1	Router with 802.11ac Dual Band Gigabit, 1Ghz Dual Core processor MU-MIMO, AC2300 WiFi(1625+600Mbps), Simultaneous dual band 2.4GHz & 5GHz with 128 MB Flash and 256 MB RAM, 1(min) x USB3.0 & 1(min) x USB2.0 for faster streaming, backup and easy access to stored media, Wi-Fi Protected Access® (WPA/WPA2—PSK) and WEP, Guest network access—separate & secure, WiFi Protected Access® (WPA/WPA2—PSK), Double firewall protection (SPI and NAT), Denial-of-service (DoS) attack prevention, IEEE® 802.11 b/g/n 2.4 GHz ,IEEE® 802.11 a/n/ac 5.0 GHz - 1024 QAM support	

### Technical Specification for Wireless Access Point

Sr.No	Technical Specifications	Compliance (Yes/No)
1	Wireless Access Point - IEEE 802.11n, IEEE 802.11g, IEEE 802.11b, 2*5dBi Detachable Omni Directional (RP-SMA), 2.4-2.4835GHz, 11n: Up to 300Mbps(dynamic), 11g: Up to 54Mbps(dynamic), 11b: Up to 11Mbps(dynamic), Transmit Power : <20dBm(EIRP), Wireless Mode: AP Mode, Multi-SSID Mode, Client Mode, Repeater Mode (WDS/Universal), Bridge with AP Mode, Certification: FCC, RoHS	

### CAT6 UTP Cable

Sr No	Feature	Requirement	Compliance	Remarks, If any
1	Type	Category 6 Unshielded Twisted Pair 4 pair cable shall be compliant with ANSI/TIA/EIA-568-B.2-1 Additional Transmission Performance Specifications for 4-pair Category 6 Cabling.		
a)	Type	Category 6 UTP cables shall extend between the work area location and its associated telecommunications closet and consist of 4 pair, 23 AWG, UTP.		
b)		Supports ultrahigh speed data networks such as Gigabit Ethernet (1000 Base-T and 1000 Base-TX) and beyond.		
2	Jacket:	Jacket FR-PVC/LSZH and Should comply to FR-PVC/LSZH 332.1, IEC 60754-2 and IEC 61034-2		
3		Incorporates central spine maintaining pair separation during installation to ensure premium performance after installation.		
4	Mechanical Characteristics	Construction: 4 twisted pairs separated by internal X shaped, 4 channel, polymer spine / full separator. Half shall not be accepted. Conductor Solid Copper Conductor Diameter 0.56±0.005mm (23 AWG) Insulator Polyolefin Outer Diameter 6.0±0.4mm Max. Temperature 75°C		
5	ROHS/ELV	Compliant		
6	Certificate	UL listed / Intertek (ETL) 4 Connector channel certified and ROFIS complaint		

**Cat6 Patch Cord**

Sr.No	Item Specification	Features	Compliance Yes/No
1	Cat 6	4 Pair 24AWG stranded copper wire with ROFIS Compliant	
2	Boots	Transparent Plug with anti-snag slip on boots	
3	RJ45 Plug Standard	ISO/IEC 60606-7-4 and FCC 47 Part 68	
4	Sheath Standards	LSZH	
5	Separator	Cross / Star Spine to separate 4Pairs Patch Cords	
6	Standards	ETL Certified with ANSI/TIA-568-C.2, ISO/IEC 11801 Category 6	
7	Operating Temperature	-20 Degrees to +60 Degrees	

**Cat6 Single- IO Box with Surface Mount Box**

Sr.No	Item Specification	Features	Compliance Yes/No
1	Type	Shutters should be on faceplate.	
2	Wire terminal	200 termination cycles	
3	Modular Jack	750 mating cycles	
4	Plastic Housing	Polycarbonate, UL94V-0 rated or equivalent	
5	IDC Contact Plating	Tin/Lead Plate	
6	Faceplate	Square shuttered plate with 1/2/4 port. 86 x 86 mm	
7	ROHS/ELV	Compliant	

**Patch Panel Cat 6 UTP Keystone Type- 24 Port-Fully Loaded**

Sr.No	Item Specification	Features	Compliance Yes/No
1	Type	loaded with Jack, A key product used in both Category 6 link and channel gigabit Ethernet applications. Offering both front and rear labelling options.	
2	Ports	24	
3	Plastic Housing Jack Connector	Polycarbonate, UL94V-0 rated or equivalent	
4	Contact Plating	50g” Gold/100g” Nickel	
5	Front Connector interface	RJ45	
6	Circuit Identification Scheme	Icons on each of 24-ports	
7	Port Identification	9mm or 12mm Labels on each of 24-ports (to be included in supply)	
8	Height	1 U	
9	ROHS/ELV	Compliant	

### **Technical Specification for Wall-Mount Network Rack**

<b>Sr.No</b>	<b>Technical Specifications</b>	<b>Compliance (Yes/No)</b>
1	Rack Standard - Conforms to DIN 41494 or equivalent standard	
2	Construction - Welded	
3	Front Door - Lockable Toughened Glass Door	
4	Basic Frame - Steel	
5	Equipment Mounting - DIN Standard Slots	
6	Mounting Angle -19° Mounting angles made of formed steel, Power Coated	
7	Static Load - 25 Kg or more	
8	6U Size - 550mm (W) x 600mm (D) x 347mm (H)	
9	9U Size - 550mm (W) x 600mm (D) x 480mm (H)	
10	12U Size - 550mm (W) x 600mm (D) x 613mm (H)	

LAN for Admin Building of Jorhat EC-Terminal and Rack Distribution Plan

Ground Floor									
Sl. No	Rooms	Nodes	Rack	Rack Position	Nos of Switch	I/O	Patch Panel	Patch Cord 1 M	Patch Cord 2M
1	Classroom-3 (L4)	21		SL-2		21		21	21
2	Classroom- 1&2 (L1)	25	U6-1	SL-2	2	25	2	25	25
3	Lab- 2	25	U6-1	SL-3	2	25	2	25	25
4	ClassRoom C1	2		SL-3		2		2	2
5	Lab- 5	6	U6-1	SL-5	1	6	1	6	6
6	Classroom- C2	2		SL-5		2		2	2
7	Library	4		SL-5		4		4	4
8	Lab-3	42	U6-1	SL-8	2	42	2	42	42

**Total port required= 127**

First Floor									
Sl. No	Rooms	Nodes	Rack	Rack Position	Nos of Switch	I/O	Patch Panel	Patch Cord 1 M	Patch Cord 2M
1	Workshop/ Maintenance	4		SL-2		4		4	4
2	Store/UPS/Server	2	U12-1	SL-2	2	2	1	2	2
3	Centre In Charge	4		SL-2		4		4	4
4	Auditorium	4		SL-2		4		4	4
5	Reception	4		SL-2		4		4	4
6	Faculty room	6	U6-1	SL-6	1	6	1	6	6
7	Administrative/Accountant	6		SL-6		6		6	6
8	Director/ V.C Room	4		SL-6		4		4	4
		34	7		10	163	9	163	163

**Total Nodes 163**

Note: In addition to these points, 1 No. of Indoor Access Point each floor ie 02 Nos. need to install

**Total Nodes 163**

**Annexure-II**  
(in firm's letterhead)

**RATE SHEET**

**Tender No. 06/57/2021/GHY/P&S/eProcurement/1480(06-06-22) Dated: 30/09/2022**  
**For Supply & Installation of Local Area Network (LAN at Jorhat EC of NIELIT Guwahati)**

SL	Items	Qty	Product Quoted	Rate Including GST	Amount Including GST
1	Information Outlet: Cat6 Single RJ45 UTP Port with Box	161			
2	Cat6 Patch Cord 1mtr	161			
3	Cat6 Patch Cord 2mtr	110			
4	6U Mounting Rack with front Glass door and following accessories Ac mains channel (5x5A) socket and a switch IU cable manager	5			
5	12U Mounting Rack with front Glass door and following accessories Ac mains channel (5x5A) socket and a switch IU cable manager	1			
6	RJ45 Connector Cat6 (100 Jack Per Box)	1			
7	24Port 10/100/1000 Ethernet Switch	10			
8	Ethernet based router with 802.11ac Dual Band Gigabit	1			
9	Patch Panel Cat6 - 24 Port	9			
10	Cat6 UTP Cable 305m	8			
11	Indoor Access Point	2			
	<b>Total Equipment cost</b>				
	<b>Installation Work</b>				
1	Cat6 UTP Cable laying with PVC Casing capping( Cost of PVC Casing is included with this job)	2440			
2	Patch Panel fixing and termination charges including Switch fixing	9			
3	Rack fixing and dressing and Switch Assembly	6			
4	Fixing of IO with Surface Mount Box	161			
5	Installation of Indoor Access Point	2			
	<b>Total Installation Cost</b>				
	<b>Grand Total</b>				

(Signature)  
with  
Seal & Date