e-Procurement Cell

Indian Institute of Engineering Science and Technology, Shibpur
(Formerly Bengal Engineering and Science University, Shibpur)
P.O.: Botanical Garden, Howrah – 711 103
(An institute of National Importance under MHRD, Govt. of India)

Dtd.12/01/2026

e-Tenders are invited from the prospective bidder for the supply, installation of various network items and laying of cable. The terms & conditions given in the tender enquiry. E-tenders are to be submitted online on the Central Public Procurement Portal web site https://eprocure.gov.in as per the dates mentioned in the tender enquiry from eligible firms/agencies/contractors.

Supply, Installation of various Network Items and laying of reconstruction with a structured cabling Network 5th Floor Registrar Section

Tender reference no: **e-Proc/NWITEMS5THFLOOR_09012026/NISC_IIEST/654**
Tender Id: **2026_IIEST_893509_1**

 Last date of submission: 03-Feb-2026,   12:00 PM
Technical Bid opening date**: 0**4-Feb-2026,   12:00 PM
For detail please visit: **https://eprocure.gov.in/eprocure/app**

Sd/-
Mr. Suraj Kr. Gupta,
AR(S&P), IIEST Shibpur.

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY
Shibpur, P.O. Botanic Garden (Formerly Bengal Engineering and Science University)
HOWRAH (West Bengal, India)-711103
Phone: 033 26684561

Notice Inviting Tender

Tender No: **e-Proc/NWITEMS5THFLOOR_09012026/NISC_IIEST/654**   Date: 1%.01.2026

e-Tenders are invited from the prospective bidder for the supply, installation of various network items and laying of cable. The terms & conditions given in the tender enquiry. E-tenders are to be submitted online on the Central Public Procurement Portal web site https://eprocure.gov.in as per the dates mentioned in the tender enquiry from eligible firms/agencies/contractors.
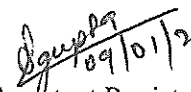
Supply, Installation of various Network Items and laying of reconstruction with a structured cabling Network 5th Floor Registrar Section

Important Information	
Tender to be submitted	Central Public Procurement Portal
Last date of tender submission	0%.0 .2026 at 12:00 pm
Tender Opening date	0%.02.2026 at 12:30 pm
Clarification needed on Bidding Documents may be inquired to (by email only)	Prof. Indrajit Banerjee, FIC(NISC) email id: ibanerjee@it.iiests.ac.in,

Terms & Conditions:-

1. All amount quoted should be inclusive of all taxes, levies & duties on F.O.R IIEST, Shibpur basis. The amount should be quoted both in figures and words.
2. **Warranty on product: - minimum 1 Year or standard warranty wherever applicable**
3. **Bid Validity:** Bids shall remain valid for a period of not less than 90 (ninety) days from the Tender submission date.
4. The work shall be accepted only after acceptance by the Institute, as per prescribed schedule.
5. IIEST, Shibpur reserves the right to counter offer price(s) against price(s) quoted by L1 bidder.
6. Tender will be evaluated as a single package of all the items given in the price schedule.
7. All work to be executed under the contract shall be executed under the direction of the authorized officer of the Institute.
8. IIEST, Shibpur reserves the Right:
    (i) To postpone/change/cancel the above-mentioned date, modify the terms and conditions include new items and conditions, split and distribute the work amongst more than one agency etc. in the interest of the Project(s)/ Company, without assigning any reason thereof.
    (ii) To ask for further Clarifications etc., as and when required.
    (iii) To accept or reject any or all the offers received, at its own discretion, without assigning any reasons thereof for which no claim on any ground shall be entertained.
9. No advance payment will be made in any circumstance.
10. Payment will be made submission of proper bill, satisfactory completion certificate from the concerned department etc. No cash payment will be made under any circumstances

11. Contractors / Bidders are requested to inspect the site before submitting the quotation. The Institute reserves the right to accept or reject all or any of the tenders without assigning any reason what so ever. The decision of the Institute shall be final in case of any dispute.

12. This Tender Enquiry is being issued with no financial commitment and the Authority reserves the right to change or vary any part thereof at any stage including withdrawal of the Tender Enquiry, if it becomes necessary at any stage.

13. The persons deployed should be polite, cordial, and efficient while handling the assigned work and their actions should promote good will and enhance the image of the Office of the Authority. The Contractor shall be responsible for any act of indiscipline on the part of the persons deployed. The persons deployed by the Contractor should have good police records and no criminal case should be pending against them.

14. Any damages / breakage due to negligence of the contractor's employee, the cost or repair / replacement will be borne by the contractor. Whether the damage / breakage has been caused due to negligence or normal wear and tear shall be heard and will be decided at sole discretion of the officials of Accepting Authority.

15. For all intents and purpose, the persons deployed by the Contractor for execution of the contract shall be the employees of the contractor. The Contractor shall be the "Employer" within the meaning of different Rules & Acts of different Labour Legislations in respect of the manpower employed and deployed in this Institute.

16. Liquidate Damage: 0.5 percent of order value will be charged per week if the order is not executed within the stipulated time.

17. **The Items/work should be supply/ completed within 15 days of issuing of order.**

18. The contractor shall be registered under GST and shall furnish documentary evidence in support of valid GST registration.

19. Bills in Triplicate should be presented for payment within 30 days of supply/completion of work.

20. The Order no. is to be noted on both challan & Bill.

21. All bills are to be accompanied by order copies and challans as received.

22. In case of any dispute, decision of the Director, IIEST Shibpur shall be final and applicable for both the parties.

Assistant Registrar
Stores and purchase

Indian Institute of Engineering Science and Technology, Shibpur
Howrah-711 103

Name of Tender:- Supply, Installation of various Network Items and laying of cable Services at 2nd Gate and 3rd Gate of IIEST, Shibpur, Howrah-711103

1. Name of the Firm   :
   (in Block Letter)

2. Office Address   :

3. Phone No.

4. E-mail ID.   :

5. Whether Partnership / Proprietorship Firm   :

6. Name of Partner(s) / Proprietor(s)   :

7. PAN No.   :

8. Trade License No.   :   :

9. **GST No.**

                                        :

Technical Specification:

1. **24 port POE manage Switch (3 Nos):**

    a. Typically denoted as a 24-port PoE managed switch
    b. Ports: 24 x 10/100/1000BASE-T Gigabit Ethernet ports with PoE support
    c. 4x1G SFP ports
    d. PoE Standards: IEEE 802.3af (PoE)
    e. Switching Capacity: Usually around 52 Gbps or higher
    f. Forwarding Rate: Approximately 38.69 to 41.7 Mpps (million packets per second) or higher
    g. MAC Address Table Size: 8K to 16K MAC addresses
    h. Packet Buffer Size: Usually ranges from 1MB to 4MB
    i. VLANs: Supports up to 4,096 VLANs
    j. Link Aggregation: IEEE 802.3ad LACP with support for multiple groups and ports per group
    k. Spanning Tree Protocol: IEEE 802.1D (STP), IEEE 802.1w (RSTP), IEEE 802.1s (MSTP)
    l. IGMP Snooping: Versions 1, 2, and 3
    m. Static Routing
    n. DHCP Features: DHCP relay agent functionality, DHCP snooping
    o. ARP: Address Resolution Protocol for mapping IP addresses to MAC addresses
    p. Traffic Prioritization: IEEE 802.1p CoS (Class of Service), DSCP (Differentiated Services Code Point)
    q. Rate Limiting: Ingress and egress rate limiting per port
    r. Access Control Lists (ACLs): L2/L3/L4 ACLs for security and traffic filtering
    s. Port Security: Protects against MAC flooding attacks
    t. RADIUS/TACACS+: Authentication, Authorization, and Accounting (AAA) support
    u. 802.1X: Port-based and MAC-based network access control
    v. DHCP Snooping: Prevents unauthorized DHCP servers on the network
    w. IP Source Guard, Dynamic ARP Inspection (DAI)
    x. Management Interface: Typically includes web-based GUI, Command Line Interface (CLI), SNMP (v1/v2c/v3), and sometimes a dedicated management port
    y. Dimensions: typically, around 1U
    z. Power Supply: Internal power supply with AC input (typically 100-240V AC)
    aa. Certifications: CE, FCC, RoHS compliance, and others depending on region and market requirements
    bb. Warranty: 3 years minimum onsite

2. **24 Port manage Switch (2 Nos.):**

    a. Typically denoted as a 24-port managed switch
    b. Ports: 24 x 10/100/1000BASE-T Gigabit Ethernet ports
    c. Switching Capacity: Usually around 52 Gbps or higher
    d. Forwarding Rate: Approximately 38.69 to 41.7 Mpps (million
    e. packets per second) or higher
    f. MAC Address Table Size: 8K to 16K MAC addresses
    g. Packet Buffer Size: Usually ranges from 1MB to 4MB
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    i. Link Aggregation: IEEE 802.3ad LACP with support for multiple groups and ports per group
    j. Spanning Tree Protocol: IEEE 802.1D (STP), IEEE 802.1w (RSTP), IEEE 802.1s (MSTP)
    k. IGMP Snooping: Versions 1, 2, and 3
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v. IP Source Guard, Dynamic ARP Inspection (DAI)
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x. Dimensions: typically around 1U
y. Power Supply: Internal power supply with AC input (typically 100-240V AC)
z. Certifications: CE, FCC, RoHS compliance, and others depending on region and market requirements
aa. Warranty: 3 years minimum onsite

3. **UTP CAT 6 Cable Specification (12 Box):**

   a. Category: 6 UTP Solid cable
   b. Conductor: Conductor: 23 AWG (Solid)
   c. Conductor Meta: Bare Copper
   d. Insulation Material: HD-PE
   e. Operating Temperature Range – 20°C to +75°C
   f. Reels of guaranteed 305m
   g. Length with spool
   h. Comply with Cat6 ISO specifications
   i. 4-pair unshielded twisted pair (UTP) cable
   j. Verified compliant with EIA/TIA Category 6 standards by ETL
   k. UL-listed

4. **CAT 6 IO Box with Faceplate (110 Nos.):**

   a. Box: ABS, UL94-HB, with white color.
   b. Screw Nut: M3.5xL7.0mm
   c. Screw: M3.5X25.0x7.0 mm
   d. Directive: RoHS certified
   e. 86 x 86 mm, Single Faceplate Accepts one Keystone Jack
   f. UK Style with shutter against dust and labeling plate.
   g. I.D. Plate: Polycarbonate, UL94V-2 transparent color.
   h. Face plate: ABS, UL94-HB,with white color
   i. Dust Cover: ABS, UL94-HB, with white color
   j. Screw: M3.5XL25.0mm
   k. Directive: RoHS certified

5. **24 port CAT 6 patch Panel IO Type**

   a. Operating Life: Minimum 750 insertion cycles
   b. Plastic Housing: Polycarbonate, UL94V-0 rated or equivalent
   c. Contact Material: Copper Alloy
   d. Contact Plating: 1.27 micrometres Au/Ni
   e. Material: CRS (cold rolled steel)
   f. Thickness: 0.060" (1.52mm)
   g. Coating: Graphite Grey Powdercoat

     h.   Dimensions: 1U
     i.   24 Port

6. CAT 6 Patch Cord (User End)

    a.   Length: 1 mtrs
    b.   Conductor size: 24 AWG stranded copper wire
    c.   Sheath: LS0H
    d.   Operating temperature range: -20°C to 60°C
    e.   RJ45 plug and boot material: Clear polycarbonate
    f.   Contact material: 0.35mm thick copper alloy
    g.   RJ45 plug dimensions compliant with: - ISO/IEC 60603-7-4 and FCC 47 Part 68
    h.   Electrical Characteristics: - Max voltage: 150 VAC (max), Max current: 1.5A @ 25°C

7. CAT 6 Patch Cord (Rack End)

    a.   Length: 2 mtrs
    b.   Conductor size: 24 AWG stranded copper wire
    c.   Sheath: LS0H
    d.   Operating temperature range: -20°C to 60°C
    e.   RJ45 plug and boot material: Clear polycarbonate
    f.   Contact material: 0.35mm thick copper alloy
    g.   RJ45 plug dimensions compliant with: - ISO/IEC 60603-7-4 and FCC 47 Part 68
    h.   Electrical Characteristics- Max voltage: 150 VAC (max), Max current: 1.5A @ 25°C

8. 9U Network Rack with accessories

a. Rack Unit (U): 9U
b. Rack Type: Wall-mount
c. Material: High-quality cold-rolled steel
d. Mounting Depth: Adjustable, typically ranging from 14 inches to 24 inches (model-dependent)
e. Weight Capacity: Generally, supports up to 60 kg (132 lbs) or more (model-dependent)
f. Height: 9U (15.75 inches or 40.01 cm)
g. Width: Standard 19 inches (48.26 cm) to accommodate standard rack-mountable equipment
h. Depth: Varies, commonly between 450 mm (17.72 inches) to 600 mm (23.62 inches) depending on the model
i. Color: Powder-coated in black or gray for durability and aesthetics
j. Doors: Lockable front door with a tempered glass or perforated mesh panel for visibility and airflow
k. Side Panels: Removable or lockable for easy access to the equipment
l. Ventilation: Built-in ventilation slots or provisions for adding fans to enhance airflow
m. Cable Management: Built-in cable management features like grommets, cable entry points, or tie points
n. Mounting Rails: Adjustable vertical mounting rails with square or threaded holes compatible with standard rack-mounted equipment
o. Fan Mounts: Provisions for mounting cooling fans, usually on the top or bottom panels
p. Pre-installed Fans: Some models come with pre-installed fans for active cooling
q. Lockable Doors: Front and sometimes rear doors can be locked to prevent unauthorized access
r. Lockable Side Panels: Side panels may also be lockable
s. Standards: Compliant with EIA/ECA-310- E, IEC 60297-3-100, and other relevant standards
t. Safety: Meets relevant safety standards for electronic equipment housing

u. Rack must be fitted properly and ready to use when supplied

9. **CAT 6 IO Keystone Jack**

a. Passive Cat6 UTP keystone jack for Ethernet networks
b. Connector Type: RJ45 8P8C modular jack
c. Cable Pairs Terminated: 4 pairs (8 conductors)
d. Category Rating: Category 6 UTP – designed for Gigabit Ethernet and data rates up to 1 Gbps in structured cabling systems
e. Standard Compliance: Complies with ANSI/TIA/EIA-568-C.2 and ISO/IEC- 11801 cabling standards
f. Panel & Faceplate Fit: Designed to snap into standard keystone wall plates, surface mount boxes, and patch panels (highdensity compatible).

10. UTP Cable Laying

a. Suitable good quality of conduit pipe (ISI labelled) and accessories should be provided by the vendor
b. Laying of cable is above surface
c. Necessary work should be done by the vendor for cable laying
d. Up to 3 cables are allowed to bunch up inside a pipe
e. After termination, test each cable to ensure there are no faults, shorts, or performance issues
f. IO punching, RJ 45 termination and cable marking
g. Clearly label the cables at both ends for easy identification and maintenance
h. Adhere to the maximum length of 100 meters (328 feet) for a single run to avoid signal degradation

Note: -
i. Any property of the IIEST, Shibpur damage during cable laying must be borne by the vendor.
ii. The vendor must comply with the network support staff of IIEST, Shibpur
iii. All security measure must be taken for the worker by the vendor
iv. Work would be done during the office work hours only

Please note that fil up of this document is mandatary by the participating vendor/party. Otherwise we will not accept your participation/bid. Also attach the supporting documents accordingly

SL. No.	Item Name/Description	Quantity	Participation YES/NO	Make	Model
1.	**24 port POE manage Switch**	3 Nos.			
2.	**24 Port manage Switch**	2 Nos.			
3.	**UTP CAT 6 Cable**	12 Box.			
4.	**CAT 6 IO Box with Faceplate**	110Nos.			
5.	**24 port CAT 6 patch Panel IO Type**	110 Nos			
6.	**CAT 6 Patch Cord (User End)**	110 Mts			
7.	**CAT 6 Patch Cord (Rack End)**	110 Nos			
8.	**9U Network Rack with accessories**	2 Nos.			
9.	**CAT 6 IO Keystone Jack**	5 Nos.			
10.	**UTP Cable Laying**	3400 mtrs			

————————————
Company Seal / Stamp

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Signature with Date