

भारतीय प्रौद्योगिकी संस्थान पटना
INDIAN INSTITUTE OF TECHNOLOGY PATNA

बिहटा, पटना-801106, बिहार, भारत
Bihta, Patna – 801 106, Bihar, INDIA

E-PROCUREMENT MODE

Tender Reference No.: IITP/S&P/EPR/1/CC-70/2021-22
E-tender for Supply of “**Active Components for upcoming buildings**”.

Documents to be submitted online only



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Date: 25.01.2022

Indian Institute of Technology Patna is in the process of purchasing following items(s) as per the details as given as under:

Name of the work	Supply of items mentioned in Annexure-I
Warranty	03 Years or as mentioned in Annexure-I
Delivery Schedule	04 Weeks

1. Detailed Tender Documents may be downloaded from Central Public Procurement Portal (<https://eprocure.gov.in/eprocure/app>) and from our website (<https://www.iitp.ac.in/>).
2. All details /document pertaining to the tender such as tender document, pre-bid report, corrigendum and any further updates will be available only on our website & also at CPP Portal.
3. **No manual bid will be accepted. All quotations (both technical & financial) should be submitted in the e-procurement portal only.**
4. IIT Patna shall not be responsible for non-receipt of bid due to internet issues or any other reasons.

CRITICAL DATES

Publishing Date	31.01.2022 (10:00AM)
Document Download / Sale Start Date	31.01.2022 (10:00AM)
Pre-bid meeting (online) date	15.02.2022 (11:00AM)
Bid Submission Start Date	31.01.2022 (10:00AM)
Last Date & Time of Submission of Bids (Technical & Financial Bid)	08.03.2022 (03:00PM)
Opening Date & Time of Technical Bids Online	09.03.2022 (03:30PM)
Address of Communication	The Registrar (for Stores & Purchase), Indian Institute of Technology Patna Kanpa Road, Bihta, Patna, Bihar-801106 Phone: 06115-233-683
For taking technical assistance regarding bid submission, if any	CPP Portal Website: https://eprocure.gov.in Help Desk Number 0120-4200462, 4001002, 4001005 and 4001005.

DY. REGISTRAR (S&P), IIT PATNA

Technical Specifications

Introduction

Indian Institute of Technology, Patna has a campus wide network spread over guest house, hostel and residential areas, based on optical fiber as a backbone. This state-of-the-art scalable campus network is expanding on regular basis as new academic complexes, hostels and residential complexes are coming up as per Institute needs. In view of this Institute has decided to procure some Ethernet switches and passive components for regular expansion of its campus network.

List of Estimated Items

Sl. No.	Item	Quantity (approx.)
Active Component		
1.	12-port Distribution Switch	3
2.	24-port Access switch (Non-PoE) with sufficient number of stack cable	2
3.	48-port Access switch (Non-POE) with sufficient number of stack cable	7
4.	24-port Access switch POE/POE+ (with sufficient number of stack cable)	10
5.	48-port Access switch POE/POE+ (with sufficient number of stack cable)	13
6.	SM SFP+ Module (Single Mode 1310 nm SFP+ transceiver (10GBASE-LR))	60
Passive Component (OEM Warranty & support for minimum 10 years)		
7.	12 core SM OFC armored	4000m (refer High Level Network Diagram)
8.	24 core SM OFC armored	4000m (refer High Level Network Diagram)
9.	LIU 12 port preloaded	28
10.	LIU 24 port preloaded	4
11.	LIU 48 port preloaded	2
12.	15U 760mm rack	10
13.	LC-LC SM OFC Patch cord 1mtr	150
14.	LC-LC SM OFC Patch cord 15 mtr	20
15.	1 mtr. Cat 6 patch cord	1200
16.	3 mtr. Cat 6 patch cord	250
17.	1U PVC cable manager	40
18.	High-Density Polyethylene (HDPE) Pipe 32mm (ISI Marker)	8000 Meter

UPS and Electrical (OEM Warranty & support for minimum of 3 years on UPS and 2 Years on SMF Battery)		
19.	Online UPS with battery bank, battery stand, UPS Stand/ enclosure, and all electrical accessories for 1-hour backup on full load	3 kVA - 4 Nos 1 kVA - 4 Nos
20.	Implementation services (includes intrabuilding horizontal/Vertical OFC cabling, earthing for network equipment, Basic electrical connectivity between UPS and racks with network equipment, labelling, documentation, testing etc.). Note: Bidder must conduct a site survey to get the actual idea.	As per actual; for above mentioned items
21.	Project Management	As per actual; for above-mentioned items

Note:

- The quantity of items and works mentioned above are best effort estimation only (at least these estimated items will be required). The supplier/ vendor/ bidder must conduct a physical site survey to create the actual B.O.Q on turnkey solution basis.
- **Any item required for properly implementing and commissioning the entire solution but missing in the B.O.Q/B.O.M due to poor estimation by the selected bidder must be provided without any additional cost impact to IIT PATNA. Hence, the physical site survey and estimation by interested bidders is imperative.**
- Vendor should visit the site within 20 days of publishing tender. The bidder will have to take prior appointment at “cc_office@iitp.ac.in” before site survey. The bidder has to verify the photo ID of his employee on his authorization letter on company letter-head and send it to the email given above.
- Bidder must produce the MAF from the respective OEMs for all the items in the bid with reference to the tender.
- Bidder must produce the test reports of the respective OEMs for all the passive items in the bid with reference to the tender.

Specifications**Distribution Switch:**

<u>General</u>	<u>Compliance (Yes/No)</u>	<u>Page No. in Bid Doc. & Packet no.</u>
The Switch should have minimum 12 number of SFP ports and minimum 2 number of 10GE Uplinks from Day 1.		
The switch should support MTBF of 300,000 hours (minimum)		
Should have internal Redundant Power supply from day 1		
Support for Configuration and image rollback		
Switch OEM should be in the Gartner's Leaders quadrant for Wired and Wireless LAN Access Infrastructure		
IPv4 & IPv6 Layer 3 forwarding in hardware		
<u>Architecture & Port Density</u>		
Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.		
The Switch should have minimum twelve (12) 1GbE with min. two 10GbE SFP+ Port from Day one.		
<u>Performance</u>		
Switching Bandwidth: Should have stacking facility with dedicated stacking port and support minimum total stacking bandwidth of minimum 200 Gbps or more.		
Forwarding rate at least 80 Mpps or more		
Configurable at least 8000 MAC addresses or more		
<u>Layer 2 features</u>		
Should support minimum 4K active VLANs		
Should support minimum 30K MAC addresses or more.		
Shall support IP multicast snooping IGMP v1, v2, v3		
Should support Jumbo Frames MTU size should be minimum 9000 bytes or more		
<u>Layer 3 features</u>		
Should support minimum 10K IPv4 routes and minimum 5K IPv6 routes or more		
Should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1.		
Should support OSPFv2, OSPFv3, BGP4 and BGP4+, VRRP, VRRP-E Dynamic IPv4 & IPv6 Routing protocols and Multicast Routing Protocols from Day 1.		
<u>Security</u>		
Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.		
Should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3		
Should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.		
Should support IPv4 and IPv6 ACLs with minimum 1000 rules per ACL and a minimum of 6K rules per system (Standalone Switch or Stack).		
Should support Byte and packet-based broadcast, multicast, and unknown-unicast limits with suppression port dampening.		
Should support IPv6 Router Advertisement (RA) Guard.		
Should support Flexible Authentication with 802.1x Authentication and MAC Authentication.		

Manageability		
Should support manageability using Network Management Software with Web based Graphical User Interface (GUI).		
Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
Should support NetFlow or sFlow or equivalent		
Physical Attributes, Power Supply and Fans		
Should be configured with Hot Swappable Dual Internal AC power supply and Fan from Day 1.		
Mandatory Compliance:		
All categories of Switches, Transceivers & Switch OS should be from same OEM		
Warranty		
Switch should be quoted with TAC Support and Warranty for three (3) years with NBD Hardware Replacement.		
Product brochure		
Vendor should provide printed technical catalogues/brochures for the quoted model containing technical specifications, features.		

Signature (in ink, with date) and Seal of Bidder/Tenderer

Specifications**Access Switch (PoE/PoE+):**

<u>General</u>	<u>Compliance (Yes/No)</u>	<u>Page No. in Bid Doc. & Packet no.</u>
Fixed configuration stackable managed switch having dedicated stacking port with minimum bandwidth of 40 Gbps		
The switch should have minimum 24 x 10/100/1000BaseT Ports and minimum 2 x SFP Uplinks Each downlink port should be POE/POE+ capable. (Vendor may decide 24 or 48 port switches as per implementation to provide cost optimized port density for accessing network services)		
The switch should have capability to understand the mix of traffic on their network and identify anomalies by capturing and recording specific packet flows using flow export formats.		
The switch stack should be able to accommodate switches with minimum 10G uplink. It should have separate minimum 2 numbers of stacking ports.		
Should support (internal/external) redundant power supply		
Switch OEM should be in the Gartner's leader's quadrant.		
<u>Architecture & Port Density</u>		
Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.		
Switch should have Twenty Four (24) 1GbE PoE/PoE+ RJ45 ports and minimum Two (2) 1/10GbE SFP/SFP+ Ports		
Access Switch should support Stacking up to min. 7 Switches with more than 40 Gbps stacking bandwidth per Switch.		
<u>Performance</u>		
Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of min. 100 Gbps or more.		
Forwarding Capacity: Should provide wire-speed packet forwarding of 98 Mpps or more.		
<u>Layer 2 features</u>		
Switch should support minimum 4K Active VLANs		
Switch should support minimum 16K MAC addresses or more.		
Switch should support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2		
Switch should support Jumbo Frames (up to min. 9K bytes)		
<u>Layer 3 features</u>		
Switch should support minimum 1K IPv4 Routes or more		
Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1.		
Switch should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Layer 3 Multicast Routing Protocols from Day 1.		
<u>Security</u>		

Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.		
Switch should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3		
Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.		
Switch should support IPv4 and IPv6 ACLs with minimum 200 rules per ACL and a minimum of 2K rules per system (Standalone Switch or Stack).		
Switch should support Byte and packet-based broadcast, multicast, and unknown-unicast limits with suppression port dampening.		
Switch should support IPv6 Router Advertisement (RA) Guard.		
Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication.		
<u>Manageability</u>		
Switch should support manageability using Network Management Software with Web based Graphical User Interface (GUI).		
Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
Switch should support NetFlow or sFlow or equivalent		
<u>Physical Attributes & PoE Power Budget</u>		
PoE Power Budget: The Switch should provide a minimum of 370 watts of PoE/PoE+ power.		
<u>Mandatory Compliance :</u>		
All categories of Switches, Transceivers & Switch OS should be from same OEM		
<u>Warranty</u>		
Switch should be quoted with TAC Support and Warranty for 3 years with NBD Hardware Replacement.		
<u>Product brochure</u>		
Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features.		

Signature (in ink, with date) and Seal of Bidder/Tenderer

Specifications**Access Switch (Non-PoE):**

<u>General</u>	<u>Compliance (Yes/No)</u>	<u>Page No. in Bid Doc. & Packet no.</u>
Fixed configuration stackable managed switch having dedicated stacking port with minimum bandwidth of 40 Gbps		
The switch should have minimum 24 x 10/100/1000BaseT Ports and minimum 2 x SFP Uplinks (Vendor may decide 24 or 48 port switches as per implementation to provide cost optimized port density for accessing network services)		
The switch should have capability to understand the mix of traffic on their network and identify anomalies by capturing and recording specific packet flows using flow export formats.		
The switch stack should be able to accommodate switches with minimum 10G uplink. It should have separate minimum 2 numbers of stacking ports.		
Should support (internal/external) redundant power supply		
Switch OEM should be in the Gartner's leader's quadrant.		
<u>Architecture & Port Density</u>		
Switch should offer Wire-Speed Non-Blocking Switching & Routing Performance at Layer 2 & Layer 3.		
Switch should have Twenty Four (24) 1GbE + RJ45 ports and minimum Two (2) 1/10GbE SFP/SFP+ Ports		
Access Switch should support Stacking up to min. 7 Switches with more than 40 Gbps stacking bandwidth per Switch.		
<u>Performance</u>		
Switching Bandwidth: Should provide Non-Blocking switch fabric capacity of min. 100 Gbps or more.		
Forwarding Capacity: Should provide wire-speed packet forwarding of min. 90 Mpps or more.		
<u>Layer 2 features</u>		
Switch should support minimum 4K Active VLANs		
Switch should support minimum 16K MAC addresses or more.		
Switch should support IP multicast snooping with support for IGMP v1, v2, v3 and MLD v1 & v2		
Switch should support Jumbo Frames (up to min. 9K bytes)		
<u>Layer 3 features</u>		
Switch should support minimum 1K IPv4 Routes or more		
Switch should support Basic IPv4 and IPv6 Static Routing, ECMP, Host Routes, Virtual Interfaces, Routed Interfaces, Route Only and Routing between directly connected subnets from Day 1.		
Switch should support Dynamic IPv4 & IPv6 Routing protocols (OSPFv2 and OSPFv3) and Layer 3 Multicast Routing Protocols from Day 1.		
<u>Security</u>		
Switch should support RADIUS, TACACS/TACACS+ and username/password for Authentication, Authorization and Accounting (AAA) with Local User Accounts and Local User Passwords.		

Switch should support secure communications to the management interface and system through SSL, Secure Shell (SSHv2), Secure Copy and SNMPv3		
Switch should support IP Source Guard, DHCP snooping, DHCPv4, DHCPv6 and Dynamic ARP Inspection.		
Switch should support IPv4 and IPv6 ACLs with minimum 200 rules per ACL and a minimum of 2K rules per system (Standalone Switch or Stack).		
Switch should support Byte and packet-based broadcast, multicast, and unknown-unicast limits with suppression port dampening.		
Switch should support IPv6 Router Advertisement (RA) Guard.		
Switch should support Flexible Authentication with 802.1x Authentication and MAC Authentication.		
<u>Manageability</u>		
Switch should support manageability using Network Management Software with Web based Graphical User Interface (GUI).		
Switch should provide Integrated Standard based Command Line Interface (CLI), Telnet, TFTP, HTTP access to switch management/monitoring		
Switch should support NetFlow or sFlow or equivalent		
<u>Mandatory Compliance :</u>		
All categories of Switches, Transceivers & Switch OS should be from same OEM		
<u>Warranty</u>		
Switch should be quoted with TAC Support and Warranty for 3 years with NBD Hardware Replacement.		
<u>Product brochure</u>		
Vendor should provide printed technical catalogs/brochures for the quoted model containing technical specifications, features.		

Signature (in ink, with date) and Seal of Bidder/Tenderer

All the active equipment must have compliance to/certifications from nationally & internationally recognized standards and best practices/parameters followed in India and developed countries respectively for product deployment like:

- a) Minimum Electromagnetic interferences and radiations considerations (All or subset of this. Vendor must provide exact details in solution).
 - EN55022 Class A,
 - FCC Part 15 Class A,
 - CISPR 22 Class A
- b) Minimum Safety considerations (All or subset of this. Vendor must provide exact details in solution).
 - CSA 60950-1 Safety of Information Technology Equipment
 - UL 60950-1 Safety of Information Technology Equipment
 - EN 60950-1 Safety of Information Technology Equipment
 - IEC 60950-1 Safety of Information Technology Equipment
- c) Green technologies and power efficient.
- d) BIS, ISO etc.
- e) Network Switch OEM's qualification criteria to be considered as minimum.
 - OEM should be TL9000 certified.
 - OEM should have ISO9001:2015 certified or similar certificate.
 - OEM should have presence in INDIA for more than 10 years.
 - Technical compliance to be provided on OEMs letterhead with signatures, name, email, contact number of Authorized signatory.
 - Quoted product should have support centre in India.
 - Products should be quoted with Next Business Days (NBD) replacement warranty.
 - Quoted product should have 24x7x365 TAC support for 3 Years.
 - All categories of Switches, Transceivers & Switch OS should be from same OEM.
 - The supplied AC power cord with active devices must be a single 6 foot for India.
 - The supplied switches must have stacking capability and should come with stacking cables and accessories. The switches must be in stack, if more than one switch is installed in a single rack. The supplied stack cable must be capable to provide the power and link to the connected switch.

All the equipment, components must have the operating conditions aligned to the deployment location like weather, temperature, humidity etc. or proper arrangements must be made to ensure the appropriate operating conditions.

Local Conditions: It will be incumbent upon each Bidder to fully acquaint himself with the local conditions and other relevant factors at the proposed site which would have any effect on the performance of the contract and / or the cost. For site visits and other information, the bidders may contact Computer Centre (cc_office@iitp.ac.in).

The Bidder is expected to make a site visit to the site to obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into contract.

Failure to obtain the information necessary for preparing the bid and/or failure to perform activities that may be necessary for the providing services before entering into contract will in no way relieve the successful Bidder from performing any work in accordance with the Tender documents.

It will be imperative for each Bidder to fully inform themselves of all legal conditions and factors which may have any effect on the execution of the contract as described in the bidding documents. The Purchaser shall not entertain any request for clarification from the Bidder regarding such conditions.

It is the responsibility of the Bidder that such factors have properly been investigated and considered while submitting the bid proposals and that no claim whatsoever including those for financial adjustment to the contract awarded under the bidding documents will be entertained by the Purchaser and that neither any change in the time schedule of the contract nor any financial adjustments arising thereof shall be permitted by the Purchaser on account of failure of the Bidder to appraise themselves of local laws and site conditions.

12/24/48 port Fiber Optic LIU with Pigtails, Splice Trays & Splice Protectors (Fully Loaded) SM:

Sr. No.	Specifications	Requirement
1	Connector Type	LC - Style, Duplex
2	Operating temperature	-20 Degree C to +85 Degree C
3	Durability & color	
4	MM connectors	500 cycles, Beige
5	SM connectors	200 cycles, Blue
6	Ferrules	Pre-radiused Ceramic Ferrules
7	Attenuation	Not more than 0.75 dB per mated pair
8	Fiber Optic Patch panels	
9	FMS- Front Patching / Splicing Shelf	1U - 19" size
		<ul style="list-style-type: none"> High Density:
		1U: 12/24/48 Fiber terminations
		<ul style="list-style-type: none"> Should be supplied loaded with secondary coated LC pigtails
		<ul style="list-style-type: none"> Mounting brackets to be placed in different positions
10	Swing concept allows for	<ul style="list-style-type: none"> Easy access to splicing tray
		<ul style="list-style-type: none"> Easy access to back side of connector
		<ul style="list-style-type: none"> Trays with hinges (book type) which allows facilitates easy fiber management and greater access during installation and rework
		<ul style="list-style-type: none"> Fiber guides, radius controls & secure tie downs provided

LC to LC Patch Cord SM

Sr. No.	Specifications	Requirement
1		LC to LC Duplex Fiber Optic Patch Cords 3m 9/ 125 micron
2	Cable Sheath	LSZH
3	Cable Diameter	1.8 mm mini twin zip
4	Ferrule	Ceramic
5	Buffer	.6 mm
6	Return Loss	> 45 db
7	Insertion Loss	.1 db Typical Max .3 db
8	ROHS	ROHS/ELV Compliant

Single Mode SFP+ (10Gig) LR:

10,000Base-LX Fiber SFP+ with Digital Optical Monitoring
LC duplex connector
1310 nm, for distances up to 10 km
Single Mode Fiber
ROHS Compliant
Compliant with SFP Transceiver MSA specification
Compliant with Specifications for IEEE 802.3ae/10 Gigabit Ethernet
Compliant with Industry Standard RFT Electrical Connector and Cage
Laser Class 1 Product which comply with the requirements of IEC FDA 21CFR, 1040.10, Class 1 and CSA 60950-1-03/ UL 60950-1

12/24-Core, Single mode Armored:

Sr. No.	Cable Type	Requirement
1.	12/24 Core Fiber Optic outdoor armored cable Single mode (SM)	12/24-core, Single mode Armored Fiber cable, 9/125, ITU-T 652.D (Zero Water Peak), Compliance Cable Construction BELLCORE GR 20 / IEC 794-1 Attenuation @ 1310nm <= 0.34 dB/Km @ 1550nm <= 0.22 dB/Km

		<p>Coating / Cladding ≤ 9 microns</p> <p>Chromatic Dispersion @ 1310 nm ≤ 3.5 ps/nm x km and @ 1550 nm ≤ 18 ps/nm x km</p> <p>Tensile rating 1250N</p> <p>Maximum resistance Crush 3000N</p> <p>Operating Temperature -20 Degree C to +70 Degree C,</p> <p>Armor Corrugated Steel tape Armor, HDPE Outer Jacket, Aramid yarn as a strength member Gel filled Loose Tube, minimum installation bend radius- 200mm, Fiber Core should be Silica Glass or equivalent-Fiber Core, standard factory of cable drum, RoHS compliant,</p> <p>IEC 60332-1, Core should be Silica Glass or equivalent.</p>
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Copper cable and racks		
Sr. No.	Item	Requirement
1	Copper Cat 6 Patch Cords	<ul style="list-style-type: none"> Should exceed TIA/EIA-568-C.2-1 Category 6 ISO 11801 Class E standards Should be UL/ETL/ABS tested and approved for Category 6 component compliance. Each patch cord should be 100% factory made and performance tested. Plug performance should be in center of TIA/EIA component range, ensuring interoperability and Gigabit Ethernet channel performance.
2	15U Racks	<p>15U rack min.760H X 600W X 600D or better with below accessories</p> <ul style="list-style-type: none"> Front Glass Door with Lock with double key Cable entry from top and bottom Roof Mounted Fan tray with 2 Fans of 90 CFM/230 AC, Power Cord for the Fan Tray Rack rail indicating the amount of units (U) 6W PDU with 5/15A Multi-standard Sockets + Line Filter + MCB 1U Cable Manager – As per actual. Standard/ Certification: UL/IK 08 and IP20

TECHNICAL SPECIFICATION FOR 3 and 1 KVA ONLINE UPS

Item	Minimum Specification Required	
Parameters	On-Line UPS (1PH-1PH)	Quantity: 3 kVA - 4 1 kVA - 4
Topology	True Online Double Conversion UPS with inbuilt Isolation Transformer.	
INPUT		
Phase	Single Phase	
Voltage	230V AC	
Input Voltage tolerance	160 - 300 VAC, 110V – 300 VAC @ 50% Load	
Frequency	50 Hz +/- 2 Hz	
Power Factor	0.9 without Using filters	
Current THD	<10%	
Isolation	Inbuilt Isolation transformer	
Rectifier Type	IGBT based only	
OUTPUT		
Phase	Single Phase	
Nominal Output voltage	220VAC / 230VAC / 240VAC /± 1%	
Frequency	50Hz ± 0.1Hz	
Frequency synchronization	Min 47 to 52.5 Hz	
Voltage THD	<2% Linear Load <5% Non-Linear Load	
Efficiency		
AC/AC (Overall efficiency)	Up to 92% or higher	
ECO mode		
Environment		
Operating Temperature	0-40 ⁰ C	
Humidity	0 ~ 95 %, Non-condensing	
Indications & Alert		
Display	LCD Display or LED, Digital Display for AC Voltage, Battery Voltage, Error notification	
Alarm	Mains On, Inverter On, Overload, Battery Low	
Standards [Copies of following certificates to be enclosed with the bid]		
Safety	EN 62040 - 1	
EMI / EMC	EN 62040 - 2	
Performance	IEC 62040 - 3	
Ingress Protection	IP 20	
Certification	UPS Should have Certified with ISO and BS OHSAS 18001 - 2007	
Compliance	ROHS & CE	
User Interface		
Standard Communication ports	Standard RS 232	
SNMP Interface / AS 400 Card	Intelligent slot with SNMP Card (Not applicable for 1kVA UPS)	
Battery with Iron stand		
Battery Backup	60 Minutes on Full Load.	
Battery Type	Sealed lead-acid Maintenance Free batteries.	
Battery VAH	Min 4680 for 3 kVA or above and Min 1512 for 1 kVA or above	
Battery Charging	Constant Current & Constant Voltage	
Make	SMF (VRLA) EXIDE/ Amara Raja/ Okaya	
Warranty & Support	3 Years onsite comprehensive & service call logging and resolution within 48 Hrs and 2 Years on SMF Battery.	

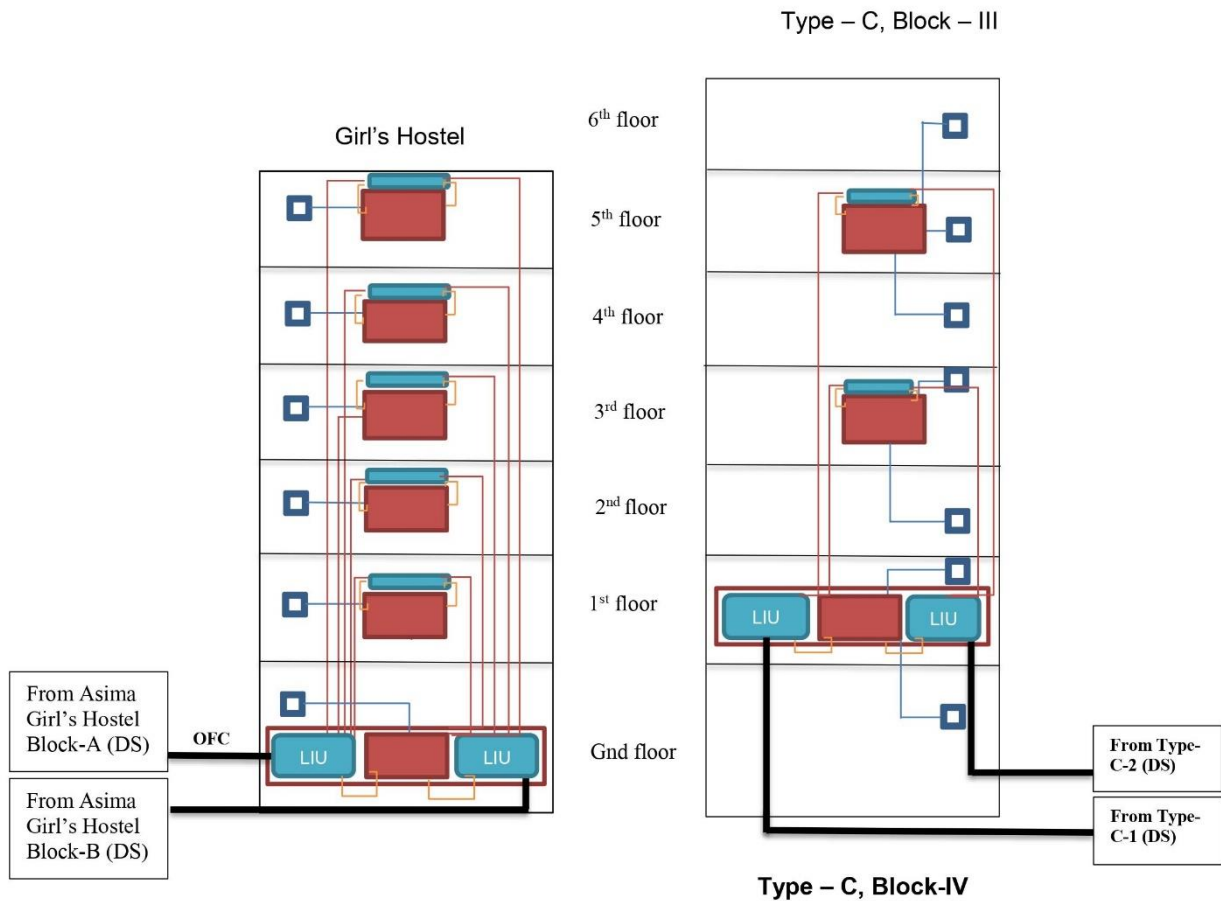
Battery Stand:

- The stand for supporting battery cells shall be provided. The stand for battery cell shall be manufactured from best quality seasoned teak wood/MS steel enclosed trolley/ with at least three coats of anti-sulphuric paints/other as per approved Indian standard.
- The racks shall be freestanding type. Suitable porcelain / plastic insulators shall be provided between the stand and the battery room floor. Number plate to designate each cell of battery shall be provided and shall be attached on the rack. Provision shall be made for clamping outgoing cable on the rack.
- The cell shall be supported on the rack in suitable row and tier formation with adequate clearance between adjacent cells.
- Provision also to be made for movement of battery stand during maintenance.

Polarity Marking:

- The polarity of the terminals shall be marked for identification. The positive terminals may be identified by 'P' or a (+) sign of red color mark and the negative terminals may be identified by 'N' or (-) sign of blue color mark. Marking shall be permanent and non-deteriorating.

Network Connectivity Diagram



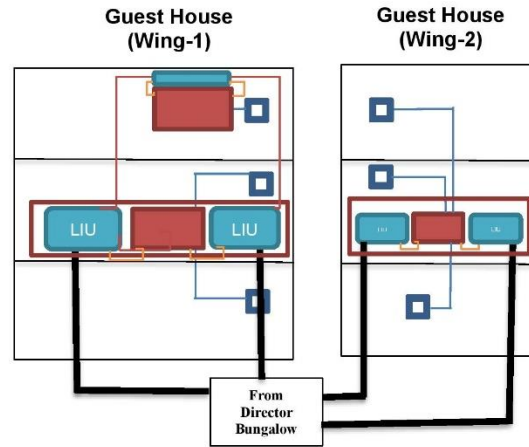
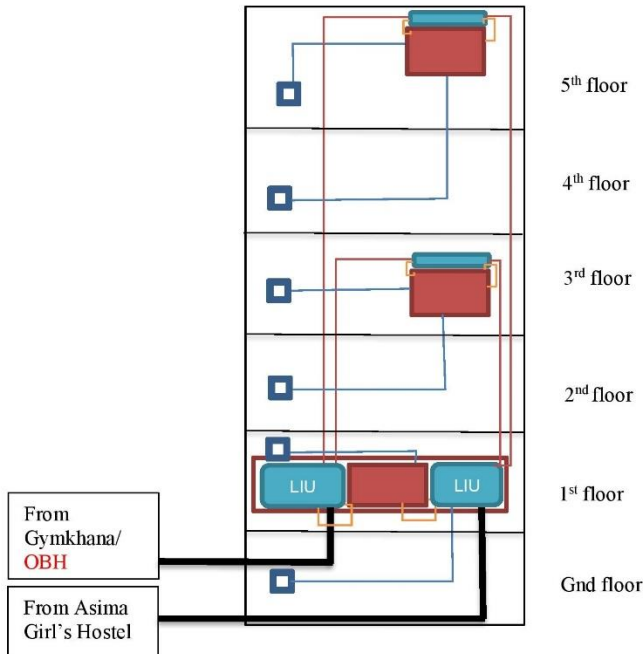
Key Points:

- 40 end user LAN ports on each floor at Girl's hostel except 34 in Ground Floor.
- 12 end user LAN on each floor at Type C.

NOTE: In Block-IV, the same connectivity layout will be followed as type C, block-III. The uplink will be provided from Type – C, Block-I.

NOTE: The uplink to the new Workshops (3 nos.) for Electrical, Mechanical and Civil, will be provided from Old workshops by the bidder/vendor.

Married research scholar's Hostel

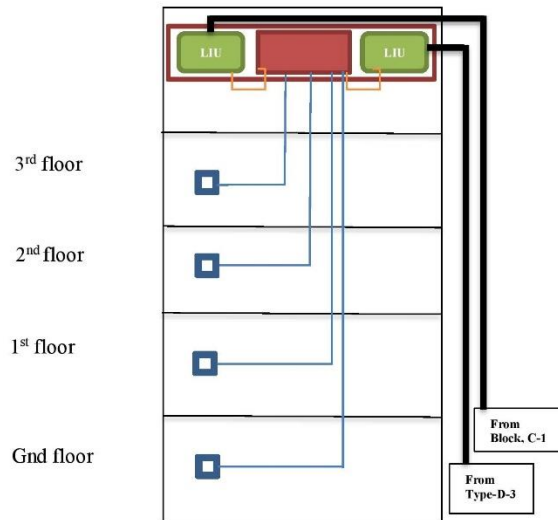


Key Points:

- 18 end user LAN ports on each floor at Married research scholar hostel.
- 36 end user LAN on 1st and 2nd floor, 28 end user LAN on ground floor at GH wing-1 (Total LAN Ports=100).
- 28 end user LAN on 1st and 2nd floor, 22 end user LAN on ground floor at GH wing-2 (Total LAN Ports=78).

- End user LAN port
- LIU
- LIU 12/24/48 port LIU
- 24/48 port POE Access Switch
- 1 12 port Distribution Switch
- Cat 6 copper cables
- LC to LC Patch Cord SM
- 12 core OFC for Vertical connectivity (floor to floor).
- 24 core / 48 core Outdoor OFC

Type – D, Block – V



Note: Same connectivity diagram will be followed for Type-D, Block-VI and Block-VII

Tentative number of end points		UPS
Girls Hostel	234	5kVA*
D Type Qtr Block 5	48	1kVA
D Type Qtr Block 6	48	1kVA
D Type Qtr Block 7	48	1kVA
C Type Qtr Block 3	84	3kVA
C Type Qtr Block 4	84	3kVA
Married scholar's Hostel	108	5kVA*
Guest House Wing-1	100	3kVA
Guest House Wing-2	78	3kVA
Workshops (3 nos)	72	1kVA
Total	906	
Estimated length of 12 core OFC for vertical run	As per actual	
Estimated length of 24 core OFC for uplink	As per actual	

* Items to be provided by IIT PATNA & installation will be done by bidder/vendor.

INSTRUCTIONS TO THE TENDERERS

The tender shall be submitted in accordance with these instructions and any tender not conforming to the instructions as under is liable to be rejected. These instructions shall form the part of the tender and the contract.

1. For Online Bid Submission as per the directives of Department of Expenditure, this tender document has been published on the Central Public Procurement Portal (URL:<http://eprocure.gov.in/eprocure/app>). The bidders are required to submit copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates.
2. More information useful for submitting the online bids on the CPP Portal is available/ obtained at [URL:http://eprocure.gov.in/eprocure/app](http://eprocure.gov.in/eprocure/app)
3. For Registration, Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <http://eprocure.gov.in/eprocure/app>) by clicking on the link *”Click here to Enroll”. Enrollment on the CPP Portal is free of charge.
4. Foreign Bidders have to refer “DSC details for foreign Bidders” for Digital Signature Certificate requirements which comes under Download Tab at <http://eprocure.gov.in/eprocure/app?page=Standard Bidding Documents &service=page> and the remaining part is same as above and below.
5. While submitting the tender, if any of the prescribed conditions are not fulfilled or are incomplete in any form, the tender is liable to be rejected. If any tenderer stipulate any condition of his own, such conditional tender is liable to be rejected.
6. IIT Patna reserves the right to reject any tender/bid wholly or partly without assigning any reason.
7. The technical committee constituted by the IIT Patna shall have the right to verify the particulars furnished by the bidder independently.
8. Tenderer shall take into account all costs including installation, commissioning, cartage etc. for giving delivery of material at site i.e. IIT Patna before quoting the rates. In this regard no claim for any extra payment for any reason shall be entertained.
9. The item should be delivered at IIT Patna, Kanpa Road, Bihta, Patna-801106, Bihar, INDIA and the supplier shall be responsible for any damage during the transit of goods.
10. All the tender documents & price bid to be uploaded as per this tender are to be digitally signed by the bidder.
11. Interested bonafide and reputed manufacturers/India agents (on behalf of their foreign principals) may submit Online bids for each of the above equipment along with all requisite documents and scanned copy of Tender Fee / EMD submission reference.
12. The Bidder(s) may note that ONLINE BIDS will ONLY be accepted. All the requisite supporting documents mentioned in the bid document should and must be uploaded On-line <http://eprocure.gov.in/eprocure/app>. The Bids sent through FAX, E-mail, by hand and/or by post shall not be accepted/ processed, in any case.
13. The bidders may submit duly filled and completed bidding document ONLINE as per instruction contained in the bidding documents. Incomplete bid shall be rejected. The conditions of tender shall be governed by the details contained in complete bid document.
14. In case, holiday is declared by the Government on the day of opening the bids, the bids will be opened on the next working day at the same time. IIT Patna reserves the right to accept or reject any or all the tenders.
15. The detailed instruction for Online submissions of bid(s) through e-Procurement module of Central Public Procurement of NIC, the bidder(s) may visit the following link:- <http://eprocure.gov.in/eprocure/app?=HelpForContractors&service=page>

INSTRUCTIONS FOR ONLINE BID SUBMISSION

(Department User may attach this Document as an Annexure in their Tender Document which provides complete Instructions for on line Bid submission for Bidders)

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

1. Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “Online bidder Enrollment” on the CPP Portal which is free of charge.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
5. Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID/ password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
2. Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e- mail in case there is any corrigendum issued to the tender document.
3. The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number

of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.

3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

Note: My Documents space is only a repository given to the Bidders to ease the uploading process. If Bidder has uploaded his Documents in My Documents space, this does not automatically ensure these Documents being part of Technical Bid.

SUBMISSION OF BIDS

1. Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
3. Bidder has to select the payment option as "offline" to pay the tender fee/ EMD as applicable and enter details of the instrument.
4. Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid opener's public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
9. Upon the successful and timely submission of bids (i.e. after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
10. The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

GENERAL TERMS AND CONDITIONS

01. **Rates:** Rates quoted for items must be on F.O.R basis for IIT Patna, on DOOR DELIVERY Basis, with break up as per details given in BoQ.
02. **Validity:** The validity period of the offer should be clearly specified. It should be at least for 120 days from the last date of submission of quotations.
03. **Warranty/Guarantee:** The material must be quoted with a minimum onsite Warranty/Guarantee period of 03 years after the date of delivery, installation and acceptance at final destination.
04. **Bid Security Declaration:** Scanned copy of signed Bid Security Declaration should be submitted in the prescribed format.
05. **Delivery:** Unless otherwise stated delivery and installation of goods shall be at IIT Patna and will have to be effected maximally within **04 weeks** from the date of issue of the Purchase Order. All aspects of safe delivery shall be the exclusive responsibility of the vendor.
06. **GST Certificates & TDS:** Scanned Copy of GST Certificate must be uploaded with technical bid. Appropriate GST deduction at source will be applicable.
07. **Dealership Certificate:** Dealership certificate (in case of authorised dealers) and standard Technical literature on the offered products must be uploaded with technical bid.
08. **Performance Guarantee:** 03% in the form of Bank Guarantee/ Fixed Deposit of the total order value needs to be submitted for such period as to cover two months beyond the warranty period for any order for equipments of more than Rs. 1 Lakh. In case of non-submission of BG/FD, an equivalent amount will be retained while payment till the above mentioned duration.
09. **Late and delayed quotation:** Late and delayed quotations will not be considered. In case any unscheduled holiday occurs on prescribed closing/opening date, the next working day shall then automatically be the prescribed date of closing/opening of the quotation with no change in timing.
10. **Ground for Rejection of Quotation:** The quotations are liable to be rejected if the foregoing conditions are not complied with. The quotation should be complete in all respects if a firm quotes NIL charges / consideration, the bid shall be treated as unresponsive and will not be considered. The quotations shall be rejected if the information, on the outer cover of the bid, is not provided in the format given in the table in Page 1.
11. **Payment:** Payment will be made within 30 days from the date of successful delivery and acceptance of goods at IIT Patna/ successful installation in case of machinery, equipments or the likes, generally through RTGS / FUND TRANSFER. Following information must be clearly written in the uploaded bank details for RTGS / FUND TRANSFER: -
 - (a) Name of the Firm with complete postal address
 - (b) Name of the Bank with Branch where the Account exist
 - (c) IFSC CODE
 - (d) ACCOUNT No
 - (e) PAN No
 - (f) GST/TIN No
12. The bidders can quote only those products in the bid which are not obsolete in the market and has atleast 3 years residual market life. Moreover, the bidder are bound to supply the spares till 10 years from the date of installation, on the same payment terms.
13. **Liquidated Damage:** If a firm accepts an order and fails to execute the order in part or in full, as per the terms and conditions stipulated in the Purchase Order, it will be open to the institute to recover the liquidated damages from the firm at the rate of 0.5% per week of the order value subject to a maximum of 10% of the order value. It will also be open to the institute alternatively, to arrange procurement of the required stores from any other source at the risk and expense of the defaulter firm/vendor, which accepted the order but failed to execute the order according to the stipulated agreed upon. Defaulter vendor(s)/ firm(s) are also liable for blacklisting.
14. **Termination for default:** Default is said to have occurred
 - (a) If the supplier fails to deliver any or all of the goods/ items/ services within the time period(s) specified in the purchase order or any extension thereof granted by IIT Patna.
 - (b) If the supplier fails to perform any other obligation(s) under the contract
 - (c) If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from IIT (or takes longer period in spite of what IIT may authorize in writing), IIT may terminate the contract / purchase order in whole or in part. In addition to above, IIT may at its discretion also take the following actions: IIT may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting

supplier shall be liable to compensate IIT for any extra expenditure involved towards goods and services to complete the scope of.

15. **Applicable Law:**
 - (a) The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing, as may be applicable upon IIT Patna.
 - (b) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Patna, India only.
 - (c) Any dispute arising out of this purchase shall be referred to the Registrar IIT Patna, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, (to be appointed by the Director of the Institute). The decision of such Arbitrator shall be final and binding on both the parties.
16. The acceptance of the quotation will rest solely with the Registrar, IITP, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all of the quotations received without assigning any reason(s).
17. **Important:** The Director may accept or reject any or all the bids in part or in full without assigning any reason and doesn't bind himself to accept the lowest bid. The institute at its discretion may change the quantity / upgrade the criteria / drop any item, at any time before placing the Purchase Order.
18. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
 - (i) For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
 - (ii) If a Force Majeure situation arises, the Supplier shall promptly notify IIT Patna in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
19. The in general Printed conditions of supply of the firm, if any, will not be binding on the Institute.
20. The bidders can quote only those products in the bid which are not obsolete in the market and has at least 3 years residual market life. Moreover, the bidder are bound to supply the spares till 10 years from the date of installation, on the same payment terms.
21. The bidders can quote only items with minimum 20% domestic value additional/local content. Local content means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent. The bidders are required to furnish a self-certificate regarding the items meeting local content requirement, mandatorily mentioning following:
 - a. Percentage of Local Content
 - b. Location(s) at which the local value addition is made.
22. 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as per instructions contained in Public Procurement (Preference to Make in India) Order 2017, as amended from time to time. The margin of purchase preference shall be 20%.
23. Any bidder from other countries (outside India) is not eligible to bid in this tender. Bidder for the purpose of this clause means:
 - a. Any entity incorporated, established or registered outside India; or
 - b. A subsidiary of an entity incorporated, established or registered outside India; or
 - c. An entity substantially controlled through entities incorporated, established or registered outside India; or
 - d. An entity whose beneficial owner is situated outside India; or
 - e. An Indian (or other) agent of entity incorporated, established or registered outside India; or
 - f. A natural person who is a citizen of other countries; or
 - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above (a to f).

Special Terms & Condition

Project Implementation (Terms & Conditions):

1. **Acceptance of Goods:** Delivered goods will be counted by Computer Center (CC) officials in presence of supplier employee, the list of items, bearing serial no., make, and model, should be provided by the vendor which will be noted and matched against the received items, and will be signed by both parties. After this, each item should be repacked by the vendor. After acceptance of the material, it will be kept in CC store room. A CC personnel will issue the goods to vendor as per their requirement during project implementation.
2. Implementation and integration with existing infrastructure are selected bidder's responsibility. If they fail to do so then IIT PATNA will recover implementation and project management charges giving appropriate notice.
3. This is high value tender so we may demand on-site manpower for passive component handling.
4. A meeting of CC with vendor will take place before start of work:
 - A project manager should be deputed on-site as a single point of contact.
 - Details of deployed engineers/technicians should be submitted. A letter should be produced by the vendor on their company letter head which covers the details of every employee along with their designation, photo id and contact number. The same will be sent to cc_office@iitp.ac.in.
 - The vendor should share the work plan with CC Team.
 - Checking site readiness for integration
 - Meet all plans, specifications and applicable codes and regulatory requirements.
 - Installation, deployment and integration of all the hardware and software components of solution.
 - Installation of all the accessories, cable and connectors
 - Bunching, dressing and labeling of the cables
 - Adherence to design specifications, in case of any deviation the same has to be conveyed to design team
 - Coordinate with design team for all design related queries
 - Adhere to quality of work during the implementation.
 - Vendor will submit an undertaking owning sole responsibility for risks involved and any mishappening with the onsite deployed manpower during the course of project implementation.
 - The onsite deputed engineer/technician should work with proper safety tools following all safety precautions.
 - Every deputed employee should wear the company ID card in the campus and follow the Covid-19 protocols.
 - Everyday work progress report should be shared by the project manager to CC Team through a company email and copy to their higher officials.
 - ***The uplink must not be used during the switch configuration etc. The uplink connection should be done in the presence of CC personnel.***
 - The management and VLAN IP will be provided by CC on demand by the project manager.
 - OFC cable should be laid in PVC/HDPE pipe.
 - The installed switch should be enclosed in such a way that rodents/reptiles do not enter it, and the OFC cable is protected.
 - Standard numbering with aluminum tags, paper chart of switch ports, uplinks and OFC cable (source & destination) should be done.

Essential Eligibility of Applicants

To be eligible for evaluation of its Proposal, the Applicant shall fulfill the following:

1. **The applicant should have at least five years of experience in implementation of Information and communication technology service and solution for hardware and software.** The applicant must provide self-attested year wise experience details and **Annexure-X/XI**.
2. For the financial and operational stability, the applicant should have an average annual turnover of the last three financial years of at least INR 5.00 (Five) Crore. The CA certified financial statements must be provided along with **Annexure-IX**.
3. The applicant should have a successful track record, and should have at least one implementation of similar work of minimum value INR 1 Crore in IIT, NIT, IISER , institute of national importance, PSU during the financial year 2015-2021. The applicant must provide the relevant PO's/Letter of award of work and completion certificate for the same.
4. ISO and CMMI certification - ISO/IEC 20000-1 international standard for IT service management, ISO 9001:2000, ISO 9001:27000 and CMMI level 3. The relevant certification document with validity must be presented.

The applicants must satisfy all the above criteria.

The milestones shall include following:

Sl No	Milestone Description	Time schedule
1	Letter of award (LOA)	Project starts on this day, Day 0.
2	Acceptance of LOA by selected applicant	Within 1 (one) week from LOA date.
3	Submission of PBG	Within 2 (Two) weeks from LOA date.
4	Project Kick Off	Within 2 (Two) weeks from LOA date.
5	Delivery of required Hardware components (Active and Passive)	Within 4 (Four) weeks from LOA.
6	Implementation (installation, configuration and integration with existing infrastructure)	Within 8 (Eight) weeks from LOA
8	Completing implementation activities and Go-Live	Within 9 (Nine) weeks from LOA
9	Completing acceptance testing	Within 10 (Ten) weeks from LOA

10	Submission of acceptance testing reports, all project documentation & installation reports	Within 11 (Eleven) weeks from LOA.
11	Warranty, support and maintenance	For the period of three years.

Award of work

After selection, a Letter of Award (the “LOA”) shall be issued, in duplicate, by the Authority to the vendor and the vendor shall, within 7 (seven) days of the receipt of the LOA, sign and return the duplicate copy of the LOA in acknowledgement thereof. In the event the duplicate copy of the LOA duly signed by the vendor is not received by the stipulated date, the Authority may, unless it consents to extension of time for submission thereof, appropriate the Bid Security of such Applicant as mutually agreed genuine pre-estimated loss and damage suffered by the Authority on account of failure of the vendor to acknowledge the LOA, and the next highest ranking Applicant may be considered.

PBG (Performance Bank Guarantee):

The vendor must produce an unconditional Performance Bank Guarantee (the “PBG”) for 3% of project value mentioned in LOA from Indian Nationalized Bank denominated in Indian Rupees (INR) within 15 days of the date of “LOA”.

The validity of the PBG must be Three years + Three months from the date of LOA.

Project Timeline:

- Delivery: Both the active and passive items must be delivered on site Within 4 (Four) weeks from LOA.
- Implementation: The vendor should complete implementation (installation, configuration and integration with existing infrastructure) within 8 weeks from LOA.
- Integration Testing: The vendor will provide the test cases along with complete documentation. The complete integration testing will be done within 9 weeks from LOA.
- Go-Live: The site should go-live soon after integration testing is completed.
- Acceptance Testing: Representative from Computer Center IIT Patna will perform acceptance testing within 10 weeks from LOA. The selected bidder must submit the Acceptance test cases. **This day will mark the start of warranty and maintenance for three years.**

Vendor/bidder will be responsible to rectify the deficiencies and other deviations identified by IIT Patna representative or committee immediately and not later than 10 days from the date of intimation by IIT Patna. Re-evaluation will be done by representative/s nominated by IIT Patna and if deficiency is not rectified, IIT Patna will be at liberty to invoke suitable penalty clauses and/or cancel the contract without further notice. Final payment release will be subject to IIT Patna conveying acceptance after evaluation.

Payment Terms and conditions:

Sr. No.	Milestone	Payment of implementation (as percentage of amount of serial no. (1)+(2)+(3) of item rate BOQ)
1.	Acceptance by Computer Center representatives	80%
2.	4 months after release of the above amount	20%

* PBG will be exclusive of this amount. All payments will be subject to deduction of all applicable taxes.

Documentation:

1. The project report should be in color which clearly shows the access switch, distribution switch uplinks, port numbering in different colors with proper labels.
2. A copy of OEM warranty details, having information on start/end warranty dates.
3. The active device warranty will start from the date of acceptance.
4. The active device warranty should be shown on the OEM website. For this, a separate account should be allocated to IITP.
5. OTDR reports of all the OFC uplinks. The vendor has to submit OFC route chart.
6. The rack key should have proper numbering during handover. IP and credential details of all the switches location- wise.
7. Completion certificate on company letterhead along with warranty details.
8. Escalation Matrix with name, designation, email, and mobile number.
9. TAC support contact details with email and phone numbers.
10. A manual of commands (with short notes) which will be used to configure the switches.

Other Terms & Conditions:

1. For uplinks, the OFC laying should be underground (min. depth 1 mtr.). The excavation work will be done manually only.
2. OFC should not be bare at any places. It should be underground or covered by brick/cement.
3. The OFC route should be marked by the Route Marker. The route marker should have proper depth/height with clear visibility.
4. Requirement of the chamber (2.5'X2.5'x3') at a 100 mtr distance, at the turning point and road crossings.
5. The OFC should be laid in the HDPE pipe everywhere.

Additional Terms & Conditions:

1. In addition to the warranty, support, AMC etc. terms mentioned in the NIQ/Tender, following points must be considered and provide duly attested information on company letter head in following format:

Sr. No.	Description	Bidders Response Yes/No	Remarks	Page no. with Packet no.
a.	Vendor must produce comprehensive OEM* warranty certificate for warranty period mentioned in the NIQ/Tender document.			
b.	Online OEM portal for product and warranty details along with support and complaint facilities. The			

	supplied items warranty & support will be start after commissioning and acceptance of work.			
c.	Escalation matrix			
d.	Maximum 48 hrs. resolution time in case of equipment/parts replacement			
e.	Comprehensive OEM support (including installation and deployment) and maximum 24 hrs. problem/issue resolution.			
f.	Valid Manufacturer's Authorization Form (MAF) (Duly attested hard copy must be submitted with the bid documents.) bearing NIQ/Tender No.			

*** Only OEM warranty will be acceptable.**

2. Bidders must provide the duly attested compliance sheet clearly indicating the compliance to the given specification as per Tender/NIQ.
3. Bidder must provide the corresponding datasheet/technical documentation clearly indicating make, model and product reference number etc. of the items mentioned in the Tender/NIQ clearly highlighting the compliance to the corresponding specifications. In case any online details, verification, documentation etc. is available, the corresponding link must be provided.
4. Bidder must attach all the duly attested documents demanded in the Tender/NIQ.
5. The bidder / OEM should not have been debarred/ blacklisted from any Govt. Department/ PSU in last 5 Years. Undertaking to this effect must be submitted on company letter head.
6. **Financial bid must contain complete break-up of the pricing clearly indicating the unit price, type and value of respective applicable taxes and exemptions, without which the bid may be disqualified/ rejected without assigning any reason.**
7. During the contract period (3 years from acceptance), IIT Patna reserves the right to forfeit the Performance Bank Guarantee submitted by bidder in case: -
 - a) The bidder fails to provide satisfactory service in the scheduled time frame, as stipulated in this document.
8. Initially Comprehensive warranty with TAC support for three years and can be extended on awarded rates and terms of conditions of the tender document for another two years on satisfactory performance of the vendor/bidder. The bidder should submit the price of comprehensive warranty with TAC support for supplied switches (access and distribution) only for post 2 years (i.e year 4 and year 5 separately). While selecting lowest bidder, the price of all the 5 years will be considered.
9. The supplied active components should have End of Life (EoL) at least 5 years from post installation (Proper Certificate from OEM to be attached with bid document).
10. Bidder has to provide uplinks on both source and destination side.
11. Bidder has to give the undertaking stating that they will install the devices as and when required with in the warranty period as directed by Head Computer Center (CC). Based on the testing and the undertaking given by the vendor final acceptance and certification will be done by Head, CC, IIT Patna. The warranty period will start after the final acceptance and certification by Head, CC, IIT Patna.
12. In case of any future expansion / up-gradation within the warranty period, necessary changes in the configuration have to be done by the selected bidder for smooth integration / migration at no additional cost.
13. In case of equipment failure, IIT Patna should be able to log case with the OEM both through the bidder and directly without bidder intervention. Emergency response team should be available from OEM directly in case of any critical failures. OEM must have 24*7 TAC support to address and rectify the

issue/problems occurring during the entire warranty period. Latest software upgrade for all products should be available free of without any additional cost during the warranty.

14. The installation, configuration of the active-passive components should be done as per the network standards.

15. Additional Requirement for all active components:

1. It should seamlessly integrate with the existing network backbone and infrastructure locally (Bidder is entirely responsible for gathering such information in comprehensive manner).

2. The active components must be discoverable and manageable from existing NMS/EMS (Cisco Prime Infrastructure 3.1.0 and Cisco Data Center Network Manager for LAN (DCNM-LAN) or a campus hosted centralized H/W or S/W based NMS/EMS must be provided at no extra cost with following features:

- Real-time monitoring of network status, traffic patterns, client connectivity, access point and wireless controller status, and alarms.
- Object management
- State management
- Notification management
- Performance management
- Fault management
- Device configuration management, management of release, upgradations, patches etc.
- Rapid and comprehensive switch, endpoint, and Layer 2 device connectivity discovery
- Security alarms, including rogue access points, DoS and probe attacks
- Any other value-added services.

Checklist-general:

In case of Failure to submit any of the below documents, bidder shall be considered disqualified without any notice.

Sr. No.	Description	Yes/No	Page no. with Packet no.
01.	Duly attested Technical Compliance sheet		
02.	Financial bid with complete break up of taxes for equipment, Services and AMC etc.		
03.	OEM & Bidder attested MAF bearing NIQ/Tender No.		
04.	Undertaking for no backlisting in any PSUs, Central, State organizations.		
05.	Completely filled up table in additional terms & conditions .		
06.	Entire bid document must be duly attested with stamp & signature.		
07.	Pages of the documents are numbered as "page m of n".		

TENDER ACCEPTANCE LETTER

(To be given on Company Letter Head)

To,
The Registrar,
(for Stores & Purchase Section)
Indian Institute of Technology Patna
Kanpa Road, Bihta, Patna, Bihar-801106
Phone: 06115-233-683

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No.: _____

Name of Tender / Work:-

Dear Sir/Madam,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned “Tender / Work” from the website(s) namely: _____ as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I / We have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.
3. I/We have read the clause 25 of General Terms & Conditions, regarding restrictions on procurement from a bidder outside the country; I/We certify that this bidder is from India. I/We hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.
4. The corrigendum(s) issued from time to time by your department / organizations too have also been taken into consideration, while submitting this acceptance letter.
5. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirely.
6. I / We do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department / Public Sector Undertaking.
7. I / We certify that all information furnished by our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department / organization shall without giving notice or reason thereof or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including forfeiture of the full said EMD absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Contact person name and designation:

Email id/ids for communication:

Mobile number :

Bid Securing Declaration Form

(To be given on Company Letter Head)

Date: _____

Tender No. _____

To,
The Registrar,
(for Stores & Purchase Section)
Indian Institute of Technology Patna
Kanpa Road, Bihta, Patna, Bihar-801106
Phone: 06115-233-683

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of two years from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because of

- a) withdrawal/modification/amendment, impairment or derogation from the tender, my/our Bid during the period of bid validity specified in the form of Bid; or
- b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the receipt of your notification of the name of the successful Bidder.

Signed: (put signature of person whose name and capacity are shown)
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

Name: (insert complete name of person signing the Bid Securing Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on _____ day of _____ (insert date of signing)

Corporate Seal (where appropriate)

(Note: In case of a Joint Venture, the Bid Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid)

PRE CONTRACT INTEGRITY PACT

General

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month of _____ 2010, between, on one hand, the President of India acting through Shri _____, Designation of the officer, Ministry / Department, Government of India (hereinafter called the “BUYER”, which expression shall mean and include, unless the context otherwise required, his successors in office and assigns) of the First part and M/s _____-_____ represented by Shri _____, Chief Executive Officer (hereinafter called the “BIDDER/ Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER/Seller is willing to offer/has offered the stores and

WHEREAS the BIDDER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered in with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, with demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.

1.3 All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDERS

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-

3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage commission, fees, brokerage or inducement o any official of the BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the Government.

3.3 BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

3.5 The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defence stores and has not engaged any individual or firm or company whether India or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical

proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.11 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

4. Previous Transgression

4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of the Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.

4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

5. Earnest Money (Security Deposit)

5.1 While submitting commercial bid, the BIDDER shall deposit an amount _____ (to be specified in RFP) as Earnest Money/Security Deposit, with the BUYER through any of the following instruments:

(i) Bank Draft or a Pay Order in favour of _____

(ii) A confirmed guarantee by an Indian Nationalised Bank, promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof of payment.

(iii) Any other mode or through any other instruments (to be specified in the RFP).

5.2 The Earnest Money / Security Deposit shall be valid upto a period of five years or the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the BUYER, including warranty period, whichever is later.

5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions of Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this pact.

5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

6. Sanction for Violations

6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the BUYER to take all or any one of the following actions, wherever required:-

- (i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
- (ii) The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.
- (iii) To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
- (iv) To recover all sums already paid by the BUYER, and in case of an Indian Bidder with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.
- (v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the buyer, along with interest.
- (vi) To cancel all or any other contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
- (vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.
- (viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
- (ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.
- (x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1(i) to (x) of this Pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor (s) appointed for the purposes of this Pact.

7. **Fall Clause**

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8. **Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact of payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

9. **Law and Place of Jurisdiction**

This Pact is subject Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

10. **Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

11. **Validity**

11.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, Including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

11.2 Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12. The parties hereby sign this Integrity Pact at _____ on _____

BUYER

BIDDER

Name of the Officer

CHIEF EXECUTIVE OFFICER

Designation

Deptt./MINISTRY/PSU

Witness

Witness

1. _____

1. _____

2. _____

2. _____

FINANCIAL INFORMATION

(Applicants must furnish annual financial statements for the last five years in Form3.)

- I. Financial Analysis** – Details to be furnished duly supported by figures in balance sheet/profit and loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (copies to be attached).

Particulars	Financial Year					
	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
(i) Gross Annual Turnover (In Lakhs Rupees)						
(ii) Profit/Loss (In Lakhs Rupees)						
(iii) Income from IT service and solutions (In Lakhs Rupees)						

- a) Current Profit & Loss account

Signature of Chartered Accountant with seal

Signature of Applicant(s)

**DETAILS OF ASSIGNMENTS PROJECTS OF SIMILAR NATURE COMPLETED
DURING THE LAST FIVE YEARS ENDING <Date>**

Sr. No.	Description	Project Details
1	Name of work/project and Location	
2	Project Objectives	
3	Name & Address of Employer/organization	
4	Cost of work in Rs.	
5	Complexity of the task (modules, etc.)	
7	Date of commencement as per contract	
8	Stipulated date of Completion	
9	Up to date percentage progress of work	
10	Slow progress if any and reasons thereof	
11	Name and address/email and telephone number of officer to whom reference may be made.	
12	Remarks	

* For each work separate sheet be prepared as per Performa given in form 4.

Signature of Applicant(s) with date & seal

**ASSIGNMENT / PROJECTS OF SIMILAR NATURE UNDER EXECUTION OR
AWARDED**

Sr. No.	Description	Project Details
1	Name of work/project and Location	
2	Project Objectives	
3	Name & Address of Employer/organization	
4	Cost of work in Rs.	
5	Complexity of the task (modules, etc.)	
7	Date of commencement as per contract	
8	Stipulated date of Completion	
9	Up to date percentage progress of work	
10	Slow progress if any and reasons thereof	
11	Name and address/email and telephone number of officer to whom reference may be made.	
12	Remarks	

* For each work separate sheet be prepared as per Performa given in form 5.

Signature of Applicant(s) with date & seal

LIST OF DOCUMENTS TO BE UPLOADED WITH TECHNICAL BID

1. Documents related to Bidder's Information:
 - a. Scanned copy of bank details for NEFT/ RTGS on letter head and certificate of GST.
 - b. Scanned copy of self-declaration of original manufacturer or authorized dealership certificate from OEM.
 - c. Scanned copy of documents (Annual turnover, experience certificate etc.) as mentioned in clause 1 to 4 of Essential **Eligibility of applicant of Special Terms and Conditions** (Annexure-IX, X & XI).
2. Documents related to technically compliance statement:
 - a. Scanned copy of site survey certificate & duly signed and stamped **Annexure I(a), Annexure I(b) and Annexure I(c)**.
 - b. Scanned copy of documents as sought in Special Terms & Condition (Documentation, Additional Terms & Condition, Checklist-general etc.).
 - c. Scanned copy of **Annexure-XV without any price** mentioning list of parts/ accessories/make/model.
 - d. Scanned copy of any other documents sought in Tender Document.
3. Scanned copy of self-certificate regarding the items meeting local content requirement as mentioned in clause 21 of general terms and condition.
4. Scanned copy of tender acceptance letter. (Annexure-VI).
5. Scanned copy of signed Bid Security Declaration. (Annexure-VII).
6. Scanned copy of signed Pre-Contract Integrity Pact. (Annexure-VIII).
7. Scanned copy of detailed technical specification & brochure (if any).

(Please note that no indication of the rates/ amount be made in any of the documents submitted with the technical bid)

INSTRUCTION RELATED TO PRICE BID**PRICE BID:****A. Schedule of price bid in the form of BOQ format:**

1. The below mentioned Financial Proposal / Commercial bid format is provided as BOQ along with this tender documents at <https://eprocure.gov.in/eprocure/app>
2. **Bidders are advised to download this BOQ.xls** as it is and quote their offer / rates in the permitted column and upload the same in the commercial bid.
3. Bidder shall not tamper / modify the downloaded price bid template in any manner. In case if the same is found to be tampered/ modified in any manner, tender will be completely rejected and EMD shall be forfeited.
4. Any element of cost, taxes, duties levies etc. not specifically indicated in the BOQ, shall not be paid by the purchaser. **If GST amount is not quoted in the BOQ (Financial Bid), the total cost will be treated as inclusive of GST. No further communication will be entertained later or else the EMD will be forfeited.**
5. The tender shall remain valid for acceptance for **120 days**, from the date of tender opening.

B. Break-up of price in PDF format:

The break-up of price for each item should be given in PDF format (Signed Scanned Copy) with details of components with individual prices, post warranty period AMC charges and optional accessories, if any in the format provide as Annexure-XV.

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	NUMBER #	NUMBER	NUMBER	NUMBER #	NUMBER #	TEXT #
Sl. No.	Item Description	Quantity	Units	Quoted Currency in INR / Other Currency	BASIC RATE In Figures To be entered by the Bidder in Rs. P	GST in Percentage	GST Amount Rs. P	TOTAL AMOUNT Without Taxes in Rs. P	TOTAL AMOUNT With Taxes	TOTAL AMOUNT In Words
1	2	4	5	12	13	14	15	53	54	55
1	Providing network connectivity to the upcoming buildings	1.00	Nos	INR			0.00	0.00	0.00	INR Zero Only
2	Implementation services	1.00	Nos	INR			0.00	0.00	0.00	INR Zero Only
3	Project Management	1.00	Nos	INR			0.00	0.00	0.00	INR Zero Only
4	Warranty and support for 4th year	1.00	Nos	INR			0.00	0.00	0.00	INR Zero Only
5	Warranty and support for 5th year	1.00	Nos	INR			0.00	0.00	0.00	INR Zero Only
Total in Figures								0.00	0.00	INR Zero Only
Quoted Rate in Words		INR Zero Only								

Format for Breakup of Price/Bill of Quantity:

Sl. No.	Name of Item	Make	Model	Unit	Quantity	Rate	GST (%)	Amount
Active Component								
1.	12-port Distribution Switch							
2.	24-port Access switch (Non-PoE)							
3.	48-port Access switch (Non-POE)							
4.	24-port Access switch POE/POE+							
5.	48-port Access switch POE/POE+							
6.	SM SFP+ Module (Single Mode 1310 nm SFP+ transceiver (10GBASE-LR))							
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
Passive Component (OEM Warranty & support for minimum 10 years)								
16.	12 core SM OFC armored							
17.	24 core SM OFC armored							
18.	LIU 12 port preloaded							
19.	LIU 24 port preloaded							
20.	LIU 48 port preloaded							
21.	15U 760mm rack							

22.	LC-LC SM OFC Patch cord 1mtr							
23.	LC-LC SM OFC Patch cord 15 mtr							
24.	1 mtr. Cat 6 patch cord							
25.	3 mtr. Cat 6 patch cord							
26.	1U PVC cable manager							
27.	High-Density Polyethylene (HDPE) Pipe 32mm (ISI Marker)							
28.								
29.								
30.								
31.								
32.								
33.								
34.								
35.								
36.								
37.								
38.								
39.								
40.								
UPS and Electrical (OEM Warranty & support for minimum of 3 years on UPS and 2 Years on SMF Battery)								
41.	Online UPS (03 kVA) with battery bank for 1 hour Backup			Nos.	04			
42.	Online UPS (01 kVA) with battery bank for 1 hour Backup			Nos.	04			
43.	Implementation services			Nos.	01			
44.	Project Management			Nos.	01			
45.	Warranty and support for 4th year			Nos.	01			
46.	Warranty and support for 5th year			Nos.	01			

47.								
48.								
49.								
50.								
Total basic amount for providing network connectivity in upcoming buildings as per tender (As in cell no. BA18 of BOQ)								
Total GST Amount								
Grand Total Amount								
51.	<u>Optional Item 1</u>							
52.	<u>Optional Item 2</u>							
53.	<u>Optional Item 3</u>							
54.	<u>Optional Item 4</u>							
55.	<u>Optional Item 5</u>							
56.								
57.								
58.								
59.								
60.								
61.								
62.								
63.								
64.								
65.								
Annual charges for Comprehensive AMC for 6th years after warranty period*								
Annual charges for Comprehensive AMC for 7th years after warranty period*								

*Quoted price will not be included in comprehensive statement for determining the L-1.

Note: The rows may be increased/decreased as per requirement.