

INDIAN INSTITUTE OF TECHNOLOGY GOA
At Goa Engineering College Campus
Farmagudi, Ponda, Goa 403401
E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF
PAN: AABAI1653D
TAN: BLRI08261B

Enquiry No: IITGOA/2021-22/009

Date: 23/06/2021

IIT Goa invites sealed quotations in single bid form for the supply and installation of below mentioned items.

Sl. No.	Description of Item	Qty
1	Supply of Networking/LAN Items and Installation (Detailed specifications attached)	-

Terms & Conditions

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Duly signed MAF from OEM is must for the item switches.
5. The Quotation must be in attached as per Annexure I.
6. Prices: Prices should be quoted in INR – F.O.R., IIT Goa basis only.
7. Payment terms: Within 30 days after the delivery and successful installation of items at IIT Goa.
8. Delivery and installation should be made within 4 weeks of getting a confirmed order.
9. Supplier should provide minimum three-years warranty for the above stated items.
10. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
11. It is mandatory for bidders to quote items having Local Content more than 20%. Refer revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. II dated 04.06.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India.
12. The successful bidder has to submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year plus 60 days OR up-to warranty period whichever is later from the date of issue of Purchase Order. Performance Guarantee Bond

may be submitted within 15 (Fifteen) days from the date of order acknowledgment as a successful bidder.

13. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason in public interest.
14. For any clarification, you may kindly contact Mr. Raghavendra Y K (E-mail: raghavendra@iitgoa.ac.in) and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 12/07/2021.
15. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403 401 by 17.00 Hrs on or before 14/07/2021.

Sd/-

Asst. Registrar (S&P)

Detailed Specification

1. Technical Specifications of 24 port L2 Gigabit Enterprise Switch- 01 No.

Sr. No	Technical specifications
1	Minimum of 24 ports 10/100/1000 Base-T and 4 SFP ports upgradable to 10G SFP+ ports
	1 x Out of Band IP based management Port, 1 Console Port, USB Port / External Flash
	Should support stacking with existed core switch in must.
	Have Redundant Power Supply support.
2	Each switch should have minimum 128 Gbps or more with non blocking architecture and Forwarding rate of 95 Mpps
	Should be equipped with minimum 1GB RAM and 1GB flash
	Should have LED indicator for per port status, FAN, PSU and Management Status
	0°C to 45°C operating temperature and 5% to 90% relative humidity
	Hardware and software configuration have for IPv6 from day one
3	Should have 16 K MAC Address, 4K active Vlans
	Should support 10 K ARP entries
	802.1D spanning Tree and PVST+, 802.1w, 802.1s, should have BPDU Guard or equivalent feature on edge port to auto disable port for a configurable time period to if an accidental loop occurs in the network
	Should support aggregating and load balancing of traffic to two or more peer switches within same VLAN
	Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK for dynamic VLAN propagation
	Should have 8 Hardware QOS Queues per port
	Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps
	Should have Link Layer Discovery Protocol (802.1ab) to allow recognition of third party network devices and LLDP MED for auto configuration
	Should have MAC address tracking and notification for mac address addition, delete or movement in the Network
	Should support policy based routing and switching
	Should have basic dynamic routing protocols like static routing, Default routing and RIP from day 1 and be upgradeable to OSPF , PIM , VRRP
	Must Support RFC 3619 for sub 50 ms failover and it should seamlessly integrate with Core and Distribution
	Should have Configurable multicast session limit per port
4	Local authentication database for RADIUS Authentication for 802.1x login
	Should have MAC security – Lockdown & Limit and MAC address tracking with syslog & snmp notification
	Should have SSH-2, SCP, SFTP for secure management
	Should have dynamic arp inspection , DHCP snooping, Private VLAN, SYN attack protection, GARP protection

	Should have ASIC based traffic flow analysis based on Netflow/ sFlow/ Ipflix
	Should have minimum 1 K ACL entry support and Time Based ACL
5	Should have scheduled archiving / uploading of configuration and system log to a central server
	Should support inbuilt DHCP server and Client for quick configuration of endpoints and switch
	Telnet server , ssh server, Ping and traceroute over Ipv6
	Web, Console and CLI management
	Dual firmware and configuration rollback
	Inbuilt browser based bandwidth monitoring
	Should support Energy Efficient Ethernet 802.3az
6	Model should have safety and standards certifications as below EN 55022 Class A,CISPR 22.
7	Warranty: 24/7 support SLA from OEM for 3 years

2. Technical Specifications of 48L2 Gigabit Enterprise Switch -01 No.

Sr. No	Technical specifications
1	Minimum of 48 ports 10/100/1000 Base-T and 4 SFP ports upgradable to 10G SFP+ ports
	1 x Out of Band IP based management Port , 1 Console Port, USB Port / External Flash
	Should support stacking with existed core switch in must.
	Have Redundant Power Supply support.
2	Each switch should have minimum 128 Gbps or more with non blocking architecture and Forwarding rate of 95 Mpps
	Should be equipped with minimum 1GB RAM and 1GB flash
	Should have LED indicator for per port status , FAN, PSU and Management Status
	0°C to 45°C operating temperature and 5% to 90% relative humidity
	Hardware and software configuration have for IPv6 from day one
3	Should have 16 K MAC Address, 4K active Vlans
	Should support 10 K ARP entries
	802.1D spanning Tree and PVST+, 802.1w, 802.1s , Should have BPDU Guard or equivalent feature on edge port to auto disable port for a configurable time period to if an accidental loop occurs in the network
	Should support aggregating and load balancing of traffic to two or more peer switches within same VLAN
	Should have Port based VLAN, MAC based VLAN, private vlan and 802.1 AK for dynamic VLAN propagation

	Should have 8 Hardware QOS Queues per port
	Should have traffic rate limiting with Configurable bandwidth granularity of 8 KBps
	Should have Link Layer Discovery Protocol (802.1ab) to allow recognition of third party network devices and LLDP MED for auto configuration
	Should have MAC address tracking and notification for mac address addition , delete or movement in the Network
	Should support policy based routing and switching
	Should have basic dynamic routing protocols like static routing, Default routing and RIP from day 1 and be upgradeable to OSPF , PIM , VRRP
	Must Support RFC 3619 for sub 50 ms failover and it should seamlessly integrate with Core and Distribution
	Should have Configurable multicast session limit per port
4	Local authentication database for RADIUS Authentication for 802.1x login
	Should have MAC security – Lockdown & Limit and MAC address tracking with syslog &snmp notification
	Should have SSH-2, SCP, SFTP for secure management
	Should have dynamic arp inspection , DHCP snooping, Private VLAN, SYN attack protection, GARP protection
	Should have ASIC based traffic flow analysis based on Netflow/ sFlow/ Ipflix
	Should have minimum 1 K ACL entry support and Time Based ACL
5	Should have scheduled archiving / uploading of configuration and system log to a central server
	Should support inbuilt DHCP server and Client for quick configuration of endpoints and switch
	Telnet server , ssh server, Ping and traceroute over Ipv6
	Web, Console and CLI management
	Dual firmware and configuration rollback
	Inbuilt browser based bandwidth monitoring
	Should support Energy Efficient Ethernet 802.3az
6	Model should have safety and standards certifications as below EN 55022 Class A,CISPR 22.
7	Warranty: 24/7 support SLA from OEM for 3 years

3. Technical Specifications of Cat 6 Cable Box (305 mtr) – 04 Boxes

Sr.No	Technical specifications
1	Branded Cat6 UTP cable box (Sealed). (Dlink/ Tyco Amp/ Molex)
2	305 meters in length
3	Conductor count (in Nos.,4-pair) : 8

4. Technical Specification of Cat 6 24 port loaded patch panel – 03 Nos.

Sr.No	Technical specifications
1	Branded Cat 6 24 port loaded Patch panel (Dlink/ Tyco Amp/ Molex)
2	RJ 45 Ports: 24
3	Size: 1U

5. Technical Specification of Cat 6 Information outlet – 68 Nos.

Sr.No	Technical specifications
1	Branded Cat 6 Information outlet key stone. (Dlink/ Tyco Amp/ Molex)
2	Connector type: RJ45
3	Size: 1U

6. Technical Specification of Dual face plate – 35 Nos.

Sr.No	Technical specifications
1	Branded Dual face plate (Dlink/ Tyco Amp/ Molex)
2	Color: White

7. Technical Specifications of Back Box – 35 Nos.

Sr.No	Technical specifications
1	Branded IO Box (Dlink/ Tyco Amp/ Molex)
2	Size: 75 mm x 75 mm x 50 mm

8. Technical Specifications of 15 U Wall Mount Rack – 01 No.

Sr.No	Technical specifications
1	Type: Wallmount rack with glass door
2	Size: 15 U
3	Depth: 500 mm
4	Must have PDU power strip and cooling fans

9. Cat 6 1 mtr Patch Cord – 68 Nos.

Sr.No	Technical specifications
1	Branded Cat6 UTP patch cord (Dlink/ Tyco Amp/ Molex)
2	Connector: RJ45
3	Length: 1 meter

10. Cat 6 2 mtr Patch Cord – 68 Nos.

Sr.No	Technical specifications
1	Branded Cat6 UTP patch cord (Dlink/ Tyco Amp/ Molex)
2	Connector: RJ45
3	Length: 2 meter

11. Installation and Configuration (All are must)

Sr.No	Technical specifications
1	Cable laying and casing capping as per our requirement with all accessories and tools.
2	Punching of Patch panel : 03 nos
3	Punching of Information outlet/ keystone: 68
4	Fixing of the following. a.Wallmount rack b.Patch panel, PDU c.Back box, IO and Faceplate
5	Dressing of patch cords at rack end and user end.
6	Labeling of Patch panel and faceplate
7	Testing of all connections with duly signed reports is must.
8	Configuration switches to our existing VLAN settings as per our requirement

Annexure I

Sl.no	Item name	Make & Model	Qty	Price	Total
1	24 port L2 Gigabit Enterprise Switch		01		
2	48 port L2 Gigabit Enterprise Switch		01		
3	Cat 6 Cable box (305 meters)		04		
4	Cat 6 loaded patch panel		03		
5	Cat 6 IO		68		
6	Dual face plate		35		
7	Back box		35		
8	15 U wall mount rack		01		
9	Cat 6 2 mtr Patch Cord		68		
10	Cat 6 2 mtr Patch Cord		68		
11	Installation and Configuration		-		
Sub Total					
GST applicable					
Grand Total					
In words:					

Firm Name: _____

Contact Person name: _____

Contact number and email: _____

Seal & Sign

FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on **Non-judicial stamp paper** of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA OR ANY SCHEDULED BANK SITUATED AT GOA. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.

To,
The Registrar,
Indian Institute of Technology, Goa
Farmagudi, Ponda,
Goa – 403401

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology, Goa (Buyer) have invited Tenders vide Tender No..... Dt. for purchase of

AND

WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Registrar, Indian Institute of Technology, Goa**” in the form of Bank Guarantee for Rs (**3% (three percent) of the purchase value**) and valid till **one year or upto warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of Order Acknowledgment as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology, Goa on demand and without protest or demur Rs..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology, Goa (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology, Goa (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs. (Indian Rupees only).
2. This Bank Guarantee shall be valid up to(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Goa serve upon us a written claim or demand on or before (date).
4. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at (Address of local branch).

Date:

Yours truly,

Signature and seal of the Guarantor:

Name of Bank:

Instruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

DECLARATION OF LOCAL CONTENT

(To be given on company letter head - For tender value below Rs.10 crores)
(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 crores)

Date:

To,
The Registrar,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda - Goa

Sub: Declaration of Local content

Tender Reference No: _____

Name of Tender: - _____

Country of Origin of Goods being offered: _____

We hereby declare that an item offered has % local content. _____

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

“*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the Bidder, with Official Seal)

UNDERTAKING FOR BID SECURITY

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,
The Registrar,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda – Goa

We, M/s (name of the firm), with ref. to enquiry no.
..... dtd hereby undertake that:

- 1) We accept all the terms and conditions of the tender document.
- 2) We accept that, we will not modify our bid during the bid validity period, submit performance guarantee within the stipulated period and honor the contract after award of contract.
- 3) In the event of any modification to our bid by us or failure on our part to honor the contract after final award or failure to submit performance guarantee, our firm may be debarred from participation in any tender/contract notified by Indian Institute of Technology, Goa for a period of one year.

Yours faithfully,

(Signature of the bidder with date and seal)