



**INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY**  
**(An Autonomous Institute under Department of Science and Technology, Govt. of India)**  
**Paschim Boragaon, Vigyan Path, Garchuk, Guwahati-781035**

**Notice Inviting Quotation for Network Switches**

**Advt. No:133(NIQ)**

**Date: 08/04/2018**

Sealed quotations are invited in two bid system from reputed Manufacturer/authorized distributors/dealers for supply, installation of Network Switches at Institute of Advanced Study in Science and Technology (IASST). Bid document with other terms & conditions can be submitted with bid fee and notified EMD as per following:

**Important Dates**

Bid fee-DD (non - refundable)	Start Date and Time for submission of bids	Last Date and time for submission of bids	Date and Time of Opening of Technical Bids
Rs.1000/-	10/04/2018 at 10AM	03/05/2018 till 5 P.M	04/ 05/2018 at 11.30A.M

There will not be any separate notice for participation of bidder in the bid opening time.

**Detail tender document will be available at IASST website <http://iasst.gov.in>**

Registrar, IASST

## 1. Introduction

Institute of Advanced Study in Science and Technology (IASST), Guwahati Assam has decided to upgrade and expand its Networking Infrastructure.

In this regard IASST invites bids from reputed Manufacturer/authorized distributors/dealers for the supply, installation and commissioning of Network Switches for the identified areas as mentioned in the Annexure.

Bidders are advised to study this tender document carefully before submitting their proposals in response to this Notice. Submission of proposal in response to this notice shall be deemed to have been done after careful study and examination of this document with full understanding of its terms, conditions and implications. Bidders are also requested to do a proper site visit for better understanding the requirements.

### Scope of Work

- a) The bidder is required to supply, install the Network Switches to Institute of Advanced Study in Science and Technology, Guwahati as per the specifications and conditions specified in the different parts of this Tender document.
- b) The bidders are advised to visit the above mentioned site before quoting bid in the tender.
- c) The bidder shall be ready to give the buyback benefits for the existing Cisco L3 switch model number CISCO 3750.
- d) The successful bidder shall give comprehensive hands on Training to the officials of IASST on operations.
- e) The successful bidder shall carry out the work strictly as per specifications mentioned in various sections of this tender document to the satisfaction of the indenting department.
- f) Workmanship and material used should be of the best quality.
- g) Bids shall be considered only in those cases where the bidder has quoted for the entire scope of the work.

## 2. Notice Inviting Quotation

The below mentioned Specification tables should be submitted with filled in compliance column as part of the technical proposal by the bidders.

The bidder and OEM will be responsible for offered system should be the latest model of the vendor being supplied worldwide. If IASST find that the offered model is EOL or EOS or both then IASST authority has the right to disqualify the bidder.

### OEM Criteria:

- 1) The OEM shall be in Gartner's Leader Quadrant for Network Switches Manufacturing. The documentary proof shall be submitted.
- 2) The OEM should provide minimum of 5 references in India with contact details, where the proposed solution is installed and implemented. At least 3 nos in Govt Sector. (As in the format given in Annexure IV)
- 3) All the Network Switches supplied must be certified (Certificates to be enclosed).
- 4) The Network Switches supplied must be manufactured in accordance with the ISO standards.
- 5) The specified unit shall be based upon standard components and proven technology and adopt to industry established standards.
- 6) Firmware/software upgrades are to be provided by the OEM free of cost during the warranty period and AMC Period. Undertaking from OEMs to be provided on their Letter head.
- 7) All the major components of the Network Switches shall be latest but field-proven and shall not be End-of-Life/Outdated; the same shall have to be supported by concerned OEM for at least 3 years' period from the date of supply.
- 8) All the Network Switches shall have 3 Years OEM warranty.
- 9) OEM of Network Switches should be registered in India for Last 5 years. Proof of the same should be attached with the Technical bid.

### Eligibility Criteria of bidder(s):

1. The Bidder should be a Manufacturer/authorized distributors/dealers of the respective product solution OEM (Manufacturer Authorization Form).
2. The bidder shall furnish a non – blacklisting certificate that the firm has not been blacklisted in the past by any government/Private institution. The bidder/supplier has to give an affidavit on non – judicial stamp paper of Rs.50/- that there is no vigilance/CBI case pending against the firm/supplier and the firm has not been blacklisted in the past by any Govt. or Private Organization.
3. If the bidder is an ISO certified Company, then documentary proof should be enclosed.
4. The Successful bidder/OEM should give 3 years of support for configuration, software related issues and hardware related issues as per agreed terms.
5. OEM should provide a letter, on Equipment support and availability of spares and Certificate on Non-End of Life for 3 years and Non-End of Support for a period of 5 years.
6. Penalty for delay in resolution - If selected bidder/OEM does not resolve any technical issues within the time frame from the response time, a penalty of 0.5% of total cost per day (maximum 7 days) will be charged and deducted from the amount payable to bidder. For delay beyond the stipulated period, entire PBG will be forfeited.
7. UPTIME GUARANTEE: The firm should provide uptime guarantee of 97%.
8. Delivery should be made by successful bidder as FOR IASST Guwahati.

**Sequence of documents to be provided / enclosed in each copy of the bid documents:**

1. The technical bid and price bid envelop should contain on the top advt. no, equipment name and these envelops should be put inside a single envelop which will also contain on the top advt. no, names, last date of submission of quotation and content (how many envelop) inside.
  2. Balance sheet with auditor's report for last three years.
  3. Latest Income Tax Clearance Certificates.
  3. Copy of Certificate of Registration under GST.
  4. Copy of PAN Card.
  5. Certificate of authorization from OEM.
  6. Sole Proprietary/sole manufacturer certificate for proprietary item.
  7. Compliance sheet stating the deviation, if any, with reference to the terms and specifications of the equipment/ its accessories. (Annexure – III)
  8. List of similar equipment supplied by the firm with addresses and phone numbers of customers with satisfactory completion certificate/ working certificates. Annexure – (V)
  9. Name and address of registered office, Head Office and Regional Office of the company with name and phone numbers of key persons.
  10. Self-declaration at Annexure –I (in non-judicial stamp paper of Rs.50/-)
  11. Format of Manufacturer/Supplier/Distributor information at Annexure –II.
  12. Technical Specification at Annexure – III
  13. Acceptance of all clauses of bids specification duly signed page wise.
  14. Documentary proof related to OEM and Bidder eligibility criteria.
  15. Financial Bid at A Annexure –IV(in separate envelop).
- (if bidder fails to submit any documents mentioned above; bidder will be disqualified from the tender process automatically).

**The committee of experts and the user scientists will have the right to recommend /reject purchase of tendered item.**

Note: Bidder will have to take full responsibility of migrating old configuration of the existing set up to newly install Switches without ambiguity at the time of installation.

**3. Technical Specifications (Annexure III)**

**Item No-1: Layer-3 Stackable Switch**

**QTY: 2 Nos.**

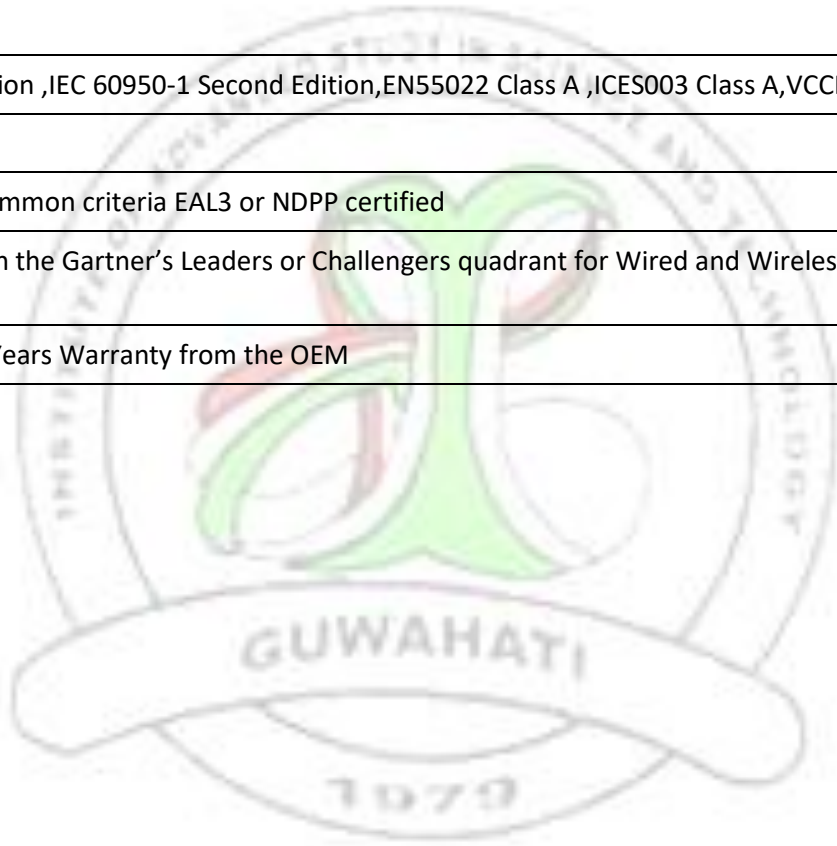
**Item No-2: Transceiver Module (Same OEM)**

**QTY: 4 Nos**

<b>Technical Specification</b>
<b>General</b>
The Switch should have minimum 24 x 10/100/1000 base-T Ports and 4 x 1G SFP ports populated with 4 x 1000 Base-SX (SM) Modules supports upto 10Km;
The switch should support MTBF of 300,000 hours (minimum)
Should have internal Redundant Power supply
Support for Configuration and image rollback
Should support IPv4 & IPv6 Layer 3 forwarding in hardware
Should have 4GB DRAM & 2GB Flash memory
<b>Performance</b>
Should support stacking facility with dedicated stacking port and support minimum total stacking bandwidth of 160 Gbps. Should support stacking of eight switches into a virtual switch.
Should have 56 Gbps Switching capacity & 41 Mpps forwarding rate
Fully non-blocking backplane and wire-speed throughput with minimal latency
MAC Address table : 30000
Should support 24000 routes
<b>Layer 3 feature</b>
Basic IP unicast routing protocols (static, RIPv1, and RIPv2) should be supported from day 1.
Should have future support for IPv4 and IPv6 routing support including OSPF, IS-IS, BGP, policy based routing & Multicast routing
<b>Layer 2 feature</b>
IEEE 802.1Q VLAN encapsulation. At least 1000 VLANs should be supported. Support for 4000 VLAN IDs.
Support for Voice VLAN which will simplify telephony installations by keeping voice traffic on a separate VLAN for easier administration and troubleshooting.
Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.
IEEE 802.1d, 802.1s, 802.1w, 802.3ad standard support from day-1
Link Aggregation Protocol (LACP)
Support for Detection of Unidirectional Links (in case of fiber cut) and to disable them to avoid problems such as spanning-tree loops.
The Switch should be able to discover the neighboring device giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.
Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.

Support for Multicast VLAN registration (MVR) to continuously send multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs for bandwidth and security reasons.
<b>Network Security Features</b>
Support for mechanisms to improve the network’s ability to automatically identify, prevent, and respond to security threats and also to enable the switches to collaborate with third-party solutions for security-policy compliance and enforcement before a host is permitted to access the network. Thus preventing the spread of Viruses & worms.
IEEE 802.1x to allow dynamic, port-based security, providing user authentication.
Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.
Support for SSHv2 and SNMPv3.
Support for Network Admission Control, IP source Guard, MAC Limiting
RADIUS authentication to enable centralized control of the switch and restrict unauthorized users from altering the configuration.
MAC address notification to allow administrators to be notified of users added to or removed from the network.
Dynamic ARP Inspection or equivalent which can ensure user integrity by preventing malicious users from exploiting the insecure nature of the ARP protocol.
DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses. This can be used to prevent attacks that attempt to poison the DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.
Port security to secure the access to an access or trunk port based on MAC address.
Multilevel security on console access to prevent unauthorized users from altering the switch configuration using local database or through an external AAA Server.
Spanning tree feature to shut down Spanning Tree Protocol enabled interfaces when BPDU’s are received to avoid accidental topology loops.
Security ACL entries – At least 1000.
<b>Quality of Service (QoS) &amp; Control</b>
Standard 802.1p CoS and DSCP
Control- and Data-plane QoS ACLs
Eight egress queues per port to enable differentiated management of up to four traffic types across the stack.
Support for congestion avoidance mechanism
Strict priority queuing mechanisms
There should not be any performance penalty for highly granular QoS functions.
Future support for feature which will provide rate limiting based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.
Switch should support at least 1000 aggregate polices.
<b>Management</b>
Command Line Interface (CLI) support for configuration & troubleshooting purposes.

For enhanced traffic management, monitoring, and analysis, upto four RMON groups (history, statistics, alarms, and events) must be supported.
Domain Name System (DNS) support to provide IP address resolution with user-defined device names.
FTP/ Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.
Network Timing Protocol (NTP) based on RFC 1305 to provide an accurate and consistent timestamp to all intranet switches.
SNMP v1, v2c, and v3 and Telnet interface support delivers comprehensive in-band management, and a CLI-based management console provides detailed out-of-band management.
RMON I and II standards
SNMPv1, SNMPv2c, and SNMPv3
<b>Safety and Compliance</b>
EN 60950-1 Second Edition ,IEC 60950-1 Second Edition,EN55022 Class A ,ICES003 Class A,VCCI Class A
<b>Certification</b>
The switch should be common criteria EAL3 or NDPP certified
Switch OEM should be in the Gartner’s Leaders or Challengers quadrant for Wired and Wireless LAN Access Infrastructure
<b>Warranty:</b> Minimum 3 Years Warranty from the OEM



**Item No-3: Layer-2 48-Port Managed stackable switch**

**QTY: 2 nos.**

**Item No-4: Transceiver Module (Same OEM)**

**QTY: 2 nos**

<b>Specification</b>
<b>General Features</b>
The switch should have minimum 48 x 10/100/1000 Base-T POE Ports & 4 x 1G SFP+ slots. Maximum POE power 370w; should be populated with 2 x 1000 Base-SX (SM) Modules supports upto 10Km
Future support for Redundant Power supply
Should have fan for proper cooling.
<b>Performance</b>
At least 200 Gbps switching bandwidth
Forwarding rate – At least 105 Mpps.
Configurable at least 16000 MAC addresses
The switch should support stacking with 80 Gbps Stacking bandwidth to stack upto 8 switches into a single virtual switch. Stacking is not required from day 1, but stacking should be supported on the proposed switch model.
DRAM 512 MB and 128 MB Flash
<b>Layer-2 Features</b>
IEEE 802.1Q VLAN encapsulation. At least 1000 VLANs should be supported. Support for 4000 VLAN IDs.
Support for Automatic Negotiation of Trunking Protocol, to help minimize the configuration & errors.
Centralized VLAN Management. VLANs created on the Core Switches should be propagated automatically.
Spanning-tree Enhancements for fast convergence
IEEE 802.1d, 802.1s, 802.1w, 802.3ad,
Spanning-tree root guard feature to prevent other edge switches becoming the root bridge.
IGMPv3. Support for at least 1000 IGMP Groups. IGMP filtering.
Link Aggregation Protocol (LACP)
Support for UDLD (in case of fiber cut) and to disable them to avoid problems such as spanning-tree loops.
The Switch should be able to discover the neighboring device of the same vendor giving the details about the platform, IP Address, Link connected through etc, thus helping in troubleshooting connectivity problems.
Per-port broadcast, multicast, and storm control to prevent faulty end stations from degrading overall systems performance.
Local Proxy Address Resolution Protocol (ARP) to work in conjunction with Private VLAN Edge to minimize broadcasts and maximize available bandwidth.



Multicast VLAN registration (MVR) to continuously send multicast streams in a multicast VLAN while isolating the streams from subscriber VLANs for bandwidth and security reasons.
<b>Layer 3 Features</b>
Layer 3 features like static routing, and Routing Information Protocol (RIP) V1 and V2. Should support PBR,EIGRP Stub,HSRP/VRRP
<b>Network Security Features</b>
Support for mechanisms to improve the network's ability to automatically identify, prevent, and respond to security threats and also to enable the switches to collaborate with third-party solutions for security-policy compliance and enforcement before a host is permitted to access the network. Thus preventing the spread of Viruses & worms.
IEEE 802.1x to allow dynamic, port-based security, providing user authentication.
Port-based ACLs for Layer 2 interfaces to allow application of security policies on individual switch ports.
SSHv2 and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.
Bidirectional data support on the Mirrored port to allow the intrusion detection system (IDS) to take action when an intruder is detected.
RADIUS authentication to enable centralized control of the switch and restrict unauthorized users from altering the configuration.
MAC address notification to allow administrators to be notified of users added to or removed from the network.
DHCP snooping to allow administrators to ensure consistent mapping of IP to MAC addresses. This can be used to prevent attacks that attempt to poison the DHCP binding database, and to rate-limit the amount of DHCP traffic that enters a switch port.
Port security to secure the access to an access or trunk port based on MAC address.
Multilevel security on console access to prevent unauthorized users from altering the switch configuration using local database or through an external AAA Server.
BPDU Guard to shut down Spanning Tree Protocol PortFast-enabled interfaces when BPDU's are received to avoid accidental topology loops.
Should support 500 IPv4 ACL entries, 500 IPv6 ACL entries,
<b>Quality of Service (QoS) &amp; Multicast</b>
Standard 802.1p CoS and DSCP
Control- and Data-plane QoS ACLs, Cross-stack QoS
Up to eight egress queues per port
Strict priority queuing mechanisms
There should not be any performance penalty for highly granular QoS functions.
Committed information rate (CIR) function to provide bandwidth in increments of 8 Kbps

Rate limiting should be provided based on source and destination IP address, source and destination MAC address, Layer 4 TCP and UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.
Flow-based rate limiting and up to 200 aggregate or individual policers per port
Shaped Round Robin (SRR) scheduling and Weighted Tail Drop (WTD) congestion avoidance.
2000 IPv4 & IPv6 Unicast Routes
1000 IPv4 Multicast Groups, 1000 IPv6 Multicast Groups
<b>Management</b>
Superior manageability Features
Command Line Interface (CLI) support for configuration & troubleshooting purposes.
For enhanced traffic management, monitoring, and analysis, upto four RMON groups (history, statistics, alarms, and events) must be supported.
Layer 2 trace route to ease troubleshooting by identifying the physical path that a packet takes from source to destination.
Domain Name System (DNS) support to provide IP address resolution with user-defined device names.
FTP/ Trivial File Transfer Protocol (TFTP) to reduce the cost of administering software upgrades by downloading from a centralized location.
Network Timing Protocol (NTP) based on RFC 1305 to provide an accurate and consistent timestamp to all intranet switches.
SNMP v1, v2c, and v3 and Telnet interface support delivers comprehensive in-band management, and a CLI-based management console provides detailed out-of-band management.
RMON I and II standards
<b>Certification:</b>
The switch should be Common Criteria EAL4 or NDPP certified and IPv6 Ready Logo certified (The supporting URL and certification link need to be attached with the Bid)
The switch should be Common Criteria EAL4 or NDPP certified.
Switch OEM should be in the Gartner’s Leaders or Challengers quadrant for Wired and Wireless LAN Access Infrastructure
<b>Warranty:</b> Minimum 3 Years Warranty from the OEM

**Item No-5: Layer-2 24-Port Gigabit PoE Switch**

**QTY: 11 nos.**

**Item N0-6: Transceiver Module (Compatible with OEM)**

**QTY: 6 Nos**

Parameter	Technical Description
<b>Device Type</b>	Switch - 28 ports - Gigabit PoE Switch; should be populated with 6 x 1000 Base-SX (SM) Modules supports upto 10Km

<b>Enclosure Type</b>	Desktop, rack-mountable - 1U
<b>Ports</b>	24 x 10/100/1000 + 2 x SFP + 2 X10/100/1000 2 combo mini-GBIC ports
<b>Performance</b>	Switching capacity : 56 Gbps or above   Forwarding performance (64-byte packet size) : 41 Mpps or above
<b>MAC Address Table Size</b>	16K entries
<b>Capacity</b>	Support for up to 4096 VLANs simultaneously
<b>Routing Protocol</b>	Static IPv4 routing. Up to 512 static routes and up to 128 IP interfaces. Should support CIDR
<b>Remote Management Protocol</b>	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, HTTPS, TFTP, SSH, CLI
<b>Authentication Method</b>	Secure Shell (SSH), RADIUS, TACACS+
<b>Features</b>	Layer 3 switching, layer 2 switching, DHCP support, BOOTP support, VLAN support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, DiffServ support, Weighted Round Robin (WRR) queuing, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, firmware upgradable, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), Jumbo Frames support, MLD snooping, fanless. Generic VLAN Registration Protocol (GVRP)/Generic Attribute Registration Protocol (GARP), Unidirectional Link Detection (UDLD), IGMP Querier, HOL blocking prevention, Unidirectional Link Detection (UDLD), LACP, IP Source Guard, Dynamic ARP Inspection (DAI), Denial-of-service (DOS) attack prevention, 8 hardware queues, MLD Snooping, IPv4 and IPv6 dual stack
<b>Compliant Standards</b>	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP)
<b>RAM</b>	256 MB
<b>Flash Memory</b>	32 MB flash
<b>Status Indicators</b>	Link activity, port transmission speed, system
<b>Interfaces</b>	24 x 10Base-T/100Base-TX/1000Base-T - RJ-45   1 x console - 9 pin D-Sub (DB-9) (with required cable)/ micro usb /RJ45 - management   2 x SFP (mini-GBIC or GBIC)+ 2 X10/100/1000 ethernet combo ports
<b>Power Device</b>	Power supply - internal
<b>Voltage Required</b>	AC 120/230 V ( 50/60 Hz )
<b>Rack Mounting Kit</b>	Should be provided

<b>MTBF</b>	3,60,000 hour(s) or above
<b>Compliant Standards</b>	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A
	Switch OEM should be in the Gartner’s Leaders or Challengers quadrant for Wired and Wireless LAN Access Infrastructure
<b>Service &amp; Support</b>	minimum 5 years warranty and technical support

**Item No-7: Layer-2 48-Port Gigabit PoE Switch**

**QTY: 4 nos.**

Parameter	Technical Description
<b>Device Type</b>	Switch - 48 ports - Gigabit PoE Switch
<b>Enclosure Type</b>	Desktop, rack-mountable - 1U
<b>Ports</b>	48 x 10/100/1000 + 2 x combo mini-GBIC ports
<b>PoE Budget</b>	Minimum 360W Power
<b>Performance</b>	Switching capacity : minimum 100 Gbps or above   Forwarding performance (64-byte packet size) : Minimum 75 Mpps or above
<b>MAC Address Table Size</b>	16K entries
<b>Capacity</b>	Support for up to 4096 VLANs simultaneously
<b>Routing Protocol</b>	Static IPv4 routing. Up to 512 static routes and up to 128 IP interfaces. Should support CIDR
<b>Remote Management Protocol</b>	SNMP 1, RMON 1, RMON 2, RMON 3, RMON 9, Telnet, SNMP 3, SNMP 2c, HTTP, HTTPS, TFTP, SSH, CLI
<b>Authentication Method</b>	Secure Shell (SSH), RADIUS, TACACS+

<b>Features</b>	Layer 3 switching, layer 2 switching, DHCP support, BOOTP support, VLAN support, IGMP snooping, Syslog support, DoS attack prevention, port mirroring, DiffServ support, Weighted Round Robin (WRR) queuing, Broadcast Storm Control, IPv6 support, Multicast Storm Control, Unicast Storm Control, firmware upgradable, Spanning Tree Protocol (STP) support, Rapid Spanning Tree Protocol (RSTP) support, Multiple Spanning Tree Protocol (MSTP) support, Trivial File Transfer Protocol (TFTP) support, Access Control List (ACL) support, Quality of Service (QoS), Jumbo Frames support, fanless.Generic VLAN Registration Protocol (GVRP)/Generic Attribute Registration Protocol (GARP),Unidirectional Link Detection (UDLD),IGMP Querier,HOL blocking prevention,Unidirectional Link Detection (UDLD),LACP,IP Source Guard,Dynamic ARP Inspection (DAI),Denial-of-service (DOS) attack prevention,8 hardware queues,MLD Snooping,IPv4 and IPv6 dual stack
<b>Compliant Standards</b>	IEEE 802.3, IEEE 802.3u, IEEE 802.3z, IEEE 802.1D, IEEE 802.1Q, IEEE 802.3ab, IEEE 802.1p, IEEE 802.3x, IEEE 802.3ad (LACP), IEEE 802.1w, IEEE 802.1x, IEEE 802.1s, IEEE 802.1ab (LLDP)
<b>RAM</b>	Minimum 128 MB
<b>Flash Memory</b>	Minimum 16 MB flash
<b>Status Indicators</b>	Link activity, port transmission speed, system
<b>Interfaces</b>	50 x 10Base-T/100Base-TX/1000Base-T - RJ-45 ; / micro usb /RJ45 - management ; 2 x SFP (mini-GBIC or GBIC)
<b>Power Device</b>	Power supply - internal
<b>Voltage Required</b>	AC 100/240 V ( 50/60 Hz )
<b>Rack Mounting Kit</b>	Should be provided
<b>Compliant Standards</b>	UL (UL 60950), CSA (CSA 22.2), CE mark, FCC Part 15 (CFR 47) Class A, Switch OEM should be in the Gartner’s Leaders or Challengers quadrant for Wired and Wireless LAN Access Infrastructure
<b>Service &amp; Support</b>	minimum 5 years warranty and technical support

**Installation:**

- The entire system shall be installed as per manufacturer’s recommendations & instructions.
- Services of authorized representative of Bidder or manufacturer for supervision of installation, connections, testing, & adjustments shall be provided.

**Testing & Commissioning:**

- Under supervision of manufacturer’s representative entire system functions, operations, protective features shall be checked & pre-set to ensure compliance or specifications.
- Test the system as per recommendations & test report need to be submit.

- In case of test any shortfalls / faults, the same shall be rectified & test procedure shall be again repeated to establish satisfactory performance.

**Drawings & Manuals:**

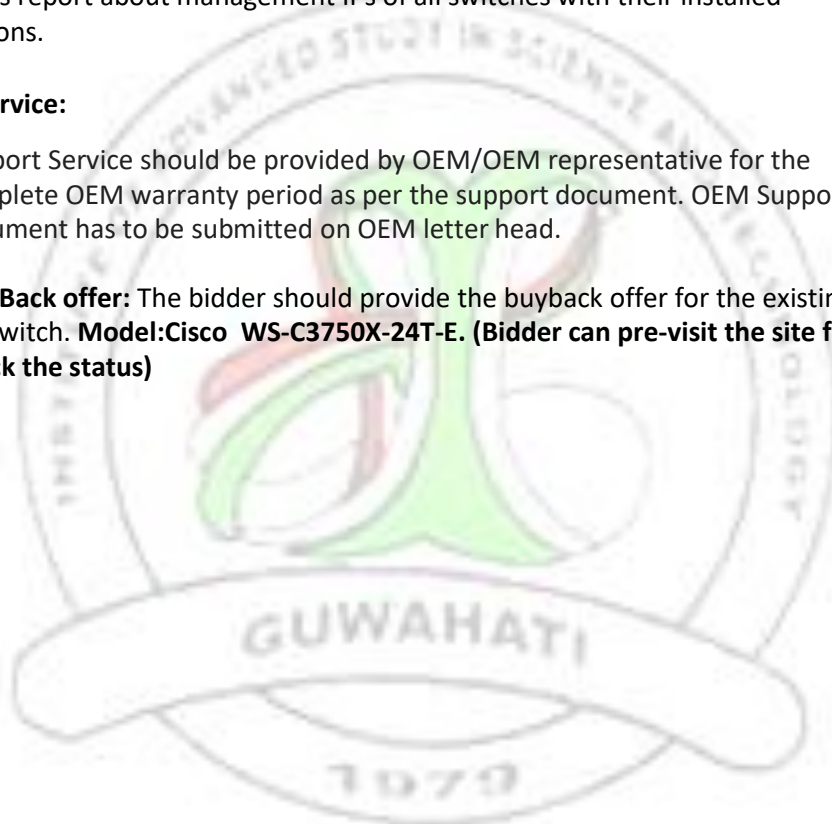
If Required, Following drawings & manuals / information shall be submitted in at least THREE copies at appropriate stages & for handing over the system.

- Manufacturer's data for product, features, components & performance along with the offer.
- Operation & maintenance manual with list of recommended spares & replacement components.
- Detail operating instructions covering operations in normal & abnormal conditions.
- Details report about management IPs of all switches with their installed locations.

**After Sales Service:**

- Support Service should be provided by OEM/OEM representative for the complete OEM warranty period as per the support document. OEM Support document has to be submitted on OEM letter head.

**Buy Back offer:** The bidder should provide the buyback offer for the existing L3 switch. **Model: Cisco WS-C3750X-24T-E. (Bidder can pre-visit the site for check the status)**



**Conditions forming part of NIQ**

- Price of the equipment to be quoted for FOR, IASST only.
- The two bid systems should be followed for this NIQ Under this system the bidder must submit their offer in two separate sealed envelopes marked clearly as Technical Bid and Commercial Bid on cover page of the envelop for each item quoted. Both the sealed envelope should be placed in a third larger envelop. The main envelope which will contain both the bids should be super scribed with NIQ enquiry no. and name of the equipment quoted for.
- The bidder shall be required to deposit **Rs.40,000/as EMD** with the Technical Bid, through Bank Draft/ Fixed Deposit Receipt/Bank Guarantee drawn in favour of '**The Director, IASST**' payable at Guwahati. All quotation uploaded without requisite amount of earnest money shall be rejected and their financial bid shall not be opened. The EMD to the unsuccessful bidders will be returned within one month from the date of placing of final order(s). In case of bidder(s) whose offer is accepted, the EMD will be returned on submission of Performance Bank Guarantee. The IASST shall forfeit EMD, if the successful bidder fails to furnish the required Bank Guarantee in time. However, no interest/penalty shall be payable to bidders if the return of EMD is delayed for any reason. Companies registered under MSME are exempted from submission of EMD subject to submission of valid Registration Certificate as applicable.
- The Technical Bids will be opened in presence of the bidders on the specified time and date. The bidder/their authorized agents who have responded to the quotation will be allowed to be present in the opening. The bidders are requested not to insert their quoted price in Technical Bid which will lead the quotation for summarily rejection.
- The Price Bids of only technically qualified bidders will be considered for further processing.
- The Successful bidder will have to submit Performance Bank Guarantee (PBG) equivalent to **Rs.1,00,000 drawn** in favour of the Director, IASST payable at Guwahati within ten (10) days from the date of award of the contract. The submitted PBG should be valid for five years period.
- Bids would be rejected for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the contract in question.
- The bids received after the deadline for submission of bids prescribed by the IASST will be rejected and such bids shall be marked as late and not considered for further evaluation.
- The IASST may, at its discretion, extend the deadline for submission of bids by amending the bid documents in accordance with clause relating to Amendment of Bidding documents in which case all rights and obligations of the IASST and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.
- The original and all copies of the bid shall be typed and shall be signed by the bidder or a person or persons duly authorised to bind the bidder to the Contract. All pages of the bid, except for un-amended printed literature, shall be initialed by the person or persons signing the bid. Further, over-writings on documents, if any should be supported by signatures.
- The bidders may submit their duly sealed Bid by post or by hand at the address specified in the NIQ not later than the time and date specified therein. In the event of the specified date for the submission of bid being declared a holiday for the IASST, the bid will be received up to the appointed time on the next working day.
- The bidder should submit soft copies of both the bids in soft copy format through CD.
- Issuance of bid documents should not automatically be construed that the bidder is considered qualified.
- The IASST Authority has the right to reject any bids on technical grounds without assigning any reason thereof.
- IASST shall not be responsible for any delay, loss or non-receipt of bid documents sent by post.

- Prices shall be quoted in Indian Rupees for offers received for supply within India and in their currency as per the Financial Bid format in case of offers received for supply from foreign countries.
- The IASST may open a letter of Credit or Wire Transfer in cases where it so decides. Any variation in price from the importer and manufacturer be communicated well in advance.
- The imported equipment should be quoted by the authorized supplier/dealer. In this case, commitment of after sales service with the period applicable should be clearly mentioned.
- Compliance sheet should indicate in details of meeting up of specifications required. The bidder can mention the additional features that exist in quoted products, if any, separately.
- Payment shall be made after delivery, successful installation, commissioning, and submission of Bank Guarantee and on submission of installation and warranty certificate duly signed and stamped by the authorized representative of the user department. **No advance payment will be made in case of equipment supplied by indigenous supplier.** In case of imported equipment 100% payment will be made through letter of credit for equipment costing USD 20000.00(or equivalent foreign currency) or more with payment terms 80% after shipment and balance 20% after satisfactory installation and commissioning along with submission of Performance Bank Guarantee. For equipment costing below USD 20000.00 (or equivalent foreign currency) payment will be made after installation through Foreign Demand Draft or through wire transfer.
- All taxes, if applicable, should be quoted separately, otherwise it would be presumed that the quoted prices are inclusive of taxes.
- Prices quoted should be FOR, IASST, Guwahati inclusive of all charges required to make the equipment functional to the satisfaction of the Institute.
- In case price for imported goods are quoted in FOR, the IASST will provide customs duty exemption certificate, if the import is made in the name of IASST and the supplier should submit original Bill of Entry in the name of the Registrar, IASST.
- Delivery should be within specified days mentioned in Purchase Order. If the equipment/instruments are not delivered within the stipulated time, the supplier shall be liable to pay a penalty of 1% of the total order value for each delay of 10 days or part thereof, and the amount will be deducted from bill value.
- The suppliers will undertake warranty of equipment/instruments from the date of installation and shall have to mention the period of warranty in both the bids clearly.
- The quotations must be valid for a minimum period of 90 days (three months) from the date of opening of the financial bids. No change in prices and change in terms and conditions will be permitted.
- The supplier further warrants that the goods shall be free from defects arising from any act or omission of the supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in India.
- The bidder should indicate clearly in their technical bid about the pre-installation requirements. Subsequently, before the consignment lands in IASST, the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipment.
- Installation, testing, commissioning of the equipment should have to be carried out by Technical experts of the company/supplier up to the satisfaction of user department of IASST.
- Free training shall be imparted to faculty/technical staff for operation, maintenance and troubleshooting at the user/IT department of IASST.
- The equipment should be supplied with manuals containing technical drawings, complete in all respects, so as to operate the system without having any problem.
- The bidder may submit the proprietary certificate for the item(s), if applicable.
- In a bid, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same bid.
- If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same bid process.
- IASST reserves the right to purchase varying quantity of material, less or more.
- In the process of evaluation, comparison of bids, IASST reserves the right to reject any or all bids.



- In case replacement of a part becomes necessary during warranty period, the parts of the same make and same or better configurations as were originally there in the equipment shall be used. The supplier/vendor shall maintain details of the replacements and repairs carried out, if any, in any equipment/instrument in a separate document and produce the details as and when required by the user department of IASST. The cost of the parts will be borne by the supplier.
- All corrigenda will only be notified on the IASST website.
- The bidder should make arrangement of insurance of the equipment against all risks of loss or damage from the date of shipment till such time it is delivered at IASST site in case of Rupee/Foreign currency terms.
- The successful bidder should transport their products through the Institute's empaneled Carrying and Forwarding Agent from CIF/CIP destination.
- The Director, IASST shall be the final Authority for settlement of any dispute and his interpretation of any Clause/term/condition(s) of this document shall be final.
- If any dispute arises out of or in connection with the contract, or in respect of any defined legal relationship associated therewith or derived there from, will be settled under the jurisdiction of Court of Law of Guwahati.
- The Institute is not bound to accept the lowest bidder.
- Purchase terms and condition as per General Financial Rule (GFR) will be applicable for all the purchases to be made.

Authorized Signature of the firm

Name:  
Date:  
Signature





ANNEXURE-I

**Self-Declaration to be given by the bidder**

NIQ Reference

No. & Date:

Bidder's Name

& Address:

Person to be

contacted:

Designation:

Telephone No:

Fax No:

Email:

The Registrar,  
Institute of Advanced Study in Science and Technology  
(IASST), Vigyan Path, Paschim Boragaon, Guwahati –  
781035.

We, the undersigned Bidder, having carefully read and examined in detail the Terms and Conditions, specifications and all bidding document in regard to the supply of equipment/instruments at Institute of Advanced Study in Science and Technology (IASST) and accept the same.

**We also hereby declare that**

- We have not been blacklisted/debarred by any Government/Undertaking.
- The rates quoted are not higher than the rates quoted for same item to any Government/Undertaking.
- The bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

For and on behalf of the firm

(Firms Name & Address)

(Signature of Authorized Signatory)

Date: -----

Place: -----

Name:

Designation:

Phone No:

Seal:



**ANNEXURE – II FORMAT FOR OTHER INFORMATION**

(To be filled in by the bidder) Cost of Bid: Rs.

1000/- -----

Cash receipt/Bank Draft No: -----

Date: -----

- Name of the firm: -----
- Address: -----
- Telephone/Mobile No: -----
- Fax Number: -----
- Email: -----
- TIN/VAT/CST No: -----
- Firm Registration No: -----  
(If any)
- PAN: -----  
(Attach photocopy)
- **Details of Earnest Money (Bids Security)--**
  - a) Bank Draft/Pay Order No.
  - b) Date.
  - c) For Rs.
  - d) Drawn On.

Place -----

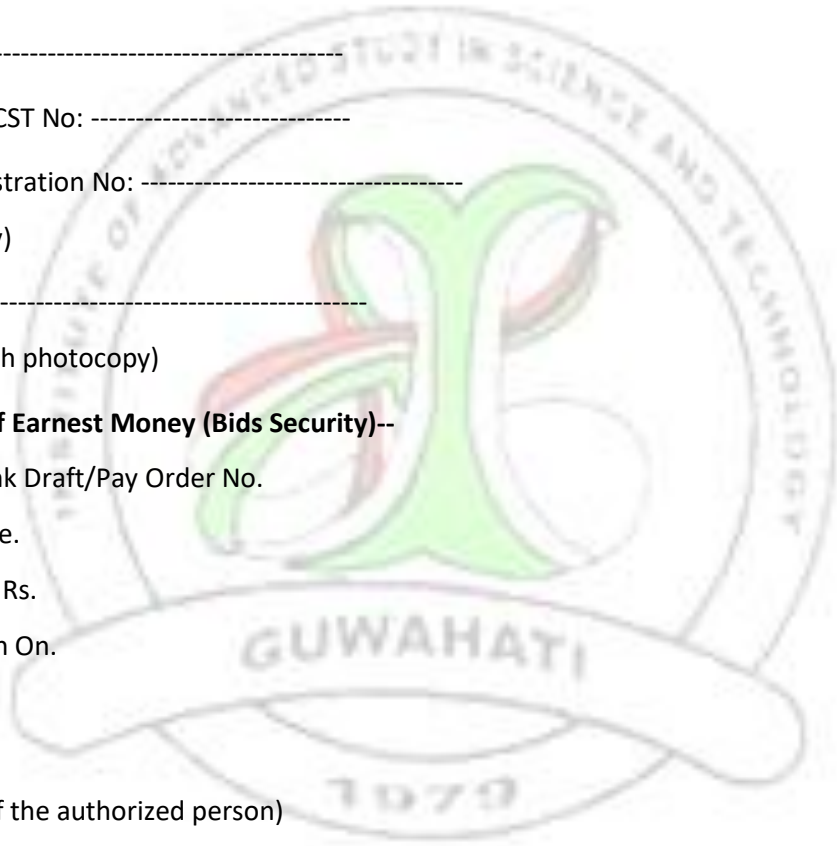
(Signature of the authorized person)

Date -----

Name of the Contact person

Name of the Firm Contact No.

Seal



## ANNEXURE – IV

## FINANCIAL BID

Sl. No	Items	Amount in INR
	Basic Cost of the Equipments	
	Sales tax & other taxes	
	Excise duty, if any	
	Customs duty, if any	
	Packaging & forwarding charges, if any	
	Octroi Duty, if applicable,	
	Training cost, if any	
	Installation and Commissioning cost, if any	
	Any other charges, if any	
	Cost of the Buyback item	
	<b>Grand Total ( in figure &amp; words) After reducing the cost of Buyback item</b>	

(Signature of the authorized person)

Name of the Contact Person

Name of the Firm

Contact No

**Annexure – V: Experience statement**

Experience in the relevant areas with the clients (Attach separate statement)

Sl. No.	Name of the Customer Organization	Year of Implementation	Scope of Work	Value of the work (In INR Lakhs)	Present status of the project



**ANNEXURE-VI : CONTACT FORM**

**(To be filled by the successful bidder only)**

**THIS AGREEMENT** is made on the ----- day of -----,20----- between the Registrar, Institute of Advanced Study in Science and Technology (IASST), Vigyan Path, Paschim Boragaon, Guwahati – 781035 (hereinafter called “the Purchaser”) of the one part and -----(Name of Supplier) of ----- (city and country of Supplier) (hereinafter called “the Supplier”) of the other part:

**WHEREAS** the Purchaser is desirous that certain equipment/instrument and after sales services viz, -----

----- (Brief Description of equipment/instrument and after sales services) and has accepted a bid by the

Supplier for the supply of those equipment/instrument and after sales services for the sum of

----- (Contract Price in Words and Figures) (hereinafter called ‘the Contract Price”).

**NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:**

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. In consideration of the payments to be made by the IASST to the supplier as hereinafter mentioned, the Supplier hereby covenants with the IASST to provide the equipment/instrument and after sales services and to remedy defects therein in conformity with the provisions of the Contract in all respects.
3. The IASST hereby covenants to pay the Supplier in consideration of the supply of the equipment/instrument and after sales services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the equipment and after sales services which shall be supplied/ provided by the Supplier are as under:

SL.N O	BRIEF DESCRIPTION OF EQUIPMENT/INSTRUMENT AND AFTER SALES SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	TOTAL PRICE	DELIVERY TREMS

**&&end&&**