

## INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

### Servers, Storage, and Network Infrastructure for National Digital Library Disaster Recovery Site

Please send your offers, ALONG WITH DESCRIPTIVE CATALOGUE/BROCHURE for the above. The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches the undersigned not later than **15.05.2017 at 15:00 hrs** at the following address:

**Dr. B. Sutradhar**  
**Librarian, Central Library,**  
**Indian Institute of Technology Kharagpur,**  
**Pin-721 302, West Bengal, India**

Earnest money of **Rs. 2,00,000/-** is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

Tender Reference	<b>IIT/LIB/EQ/BNA/2016-2017/7, Dated: 11.04.2017</b>
Price of Tender Document	<b>NIL</b>
Last Date and Time for submitting the tender document	<b>15.05.2017, 15:00 Hrs (Indian time)</b>
Time and Date of Opening of Bids	<b>15.05.2017, 16:00 Hrs (Indian time)</b>
Place of Opening tender offers	<b>Meeting Room, National Digital Library, Central Library, IIT Kharagpur – 721 302, West Bengal, India</b>
Address of Communication	<b>As stated above</b>
Contact Telephone Numbers	<b>+91- 3222 - 282432</b>
E-mail:	<b>bsutra@library.iitkgp.ernet.in</b>

## **Servers, Storage, and Network Infrastructure for National Digital Library Disaster Recovery Site**

The National Digital Library's Content Storage and Dissemination System are being designed as part of a national initiative to aggregate and provide easy access to educational content from various sources. This tender is to procure the necessary infrastructure as per details given in Annexure-1 and Annexure – 2 for the Disaster Recovery site at IIT Kharagpur Extension Centre, HC Block, Sector – III, Salt Lake City, and Kolkata – 700106. The systems to be procured are:

1. 6 rack servers
2. 1 no. 40 TB (usable) SAN
3. Switches to interconnect the storage and servers
4. Other accessories like KVM switch, monitor, keyboard, cables etc.
5. VMware virtualization software
6. 2 no. Firewalls
7. 1 no. L3 switch for Ethernet based ISP connectivity

The selected vendor will have to install and configure the system as per the connectivity diagram shown in Figure 1. The detailed technical specifications of the systems to be procured are given in Annexure-1 and Annexure-2.

### **1. Scope of Work**

1. The bidder must install & connect the systems as per the connectivity diagram given in Figure 1. The bidder must implement and demonstrate the network connectivity to all the servers from the ISP network, between the servers and the storage, and between the servers themselves.
2. The bidder must install and demonstrate the security features of the firewall.
3. The bidder must install and demonstrate the features of the L3 switch.
4. Installation & configuration of VMware ESXi 6.0 or above on 6 host servers and vCenter server appliance on ESXi host. Deploying Resource Pool, High Availability, Virtual Network, Virtual Storage (boot from SAN for ESXi guest) by using vCentre. Creating guest virtual machines as per requirement of IIT Kharagpur, which runs OS like Linux (Redhat, Centos 7, Ubuntu), Windows Server, VDP (VMware Data Protection). The Network connectivity of the virtual systems will be as per Figure 2 using virtual switches.
5. All installations will be done in existing racks in the DR Center of NDL in IIT Kolkata Extension Center. All necessary cables, sliding rails and any other accessories (hardware and software) needed for the installation must be supplied by the bidder. All physical and logical connections are to be made as shown in the connectivity diagrams provided in Figures 1 and 2.
6. Servers, storage, and switches in Annexure-1 must be from the same OEM.
7. Delivery of the system will have to be made in IIT Kharagpur Extension Centre, HC Block, Sector – III, Salt Lake City, and Kolkata – 700106.
8. All software licenses for servers, storage, firewall, and switches must be perpetual in nature. All necessary software & firmware upgrade must be intimated in time and provided free of cost during the entire warranty period.

## **2. OEM(s) Prequalification**

1. OEM(s) must have sales and support office in India.
2. OEM(s) must be in operation in the Indian market for at least 10 years.
3. OEM(s) must have spare depot in India for the items mentioned in this tender (details of spare locations to be provided).
4. OEM for items in Annexure-1 must have at least 10 installations in Eastern India with 5 or more servers (List of installations with no. of servers and contact information of the customer to be provided).
5. OEM(s) for items in Annexure-2 must have at least 5 installations in Eastern India of firewalls/switches of similar capacity (List of installations and contact information of the customer to be provided).

## **3. Bidder Pre-qualification**

1. The bidder must be ISO certified.
2. The bidder must be Original Equipment Manufacturer (OEM) or authorized distributor of the systems (Attach documentary proof). The authorization letter issued by the OEM(s) (specifically against this tender) should be enclosed.
3. Bidder must be a profit-making entity for the last 3 years, with an annual turnover of at least Rs. 25 Crores in each of the last 3 years (audited statements to be provided)
4. Bidder must have sales and support service centers in India (Details to be provided).
5. Bidder must have at least 3 installations of servers, storage, and networks of value at least 50 Lakhs each in Eastern India in the past 3 years (copy of PO/successful installation certificate to be enclosed)
6. The bidder should have technical staff capable of attending any service complaints and coordinate with OEM(s) for rectification of the same.
7. The bidder should have at least (2) two VMWare certified technical staff and carried out installation and support of VMWare for at least five (5) installations upon certification.

## **4. Warranty and Support**

1. All systems must have 5 years comprehensive onsite OEM warranty.
2. All items quoted for Annexure-2 must not have been declared as End-of-Support by the OEM anytime within the next five years.
3. Both the bidder and the OEM will be responsible for providing support to the system during the warranty period. IIT Kharagpur must be able to contact both the bidder and the OEM for service during the entire warranty period. However, it should be clearly stated who will provide first level support. If the OEM will provide first level support for some equipment, certification to this effect from the OEM must be provided for each of the equipment (Servers, SAN, network switches, firewall).
4. The bidder must provide a write up on its service and maintenance capability, and the

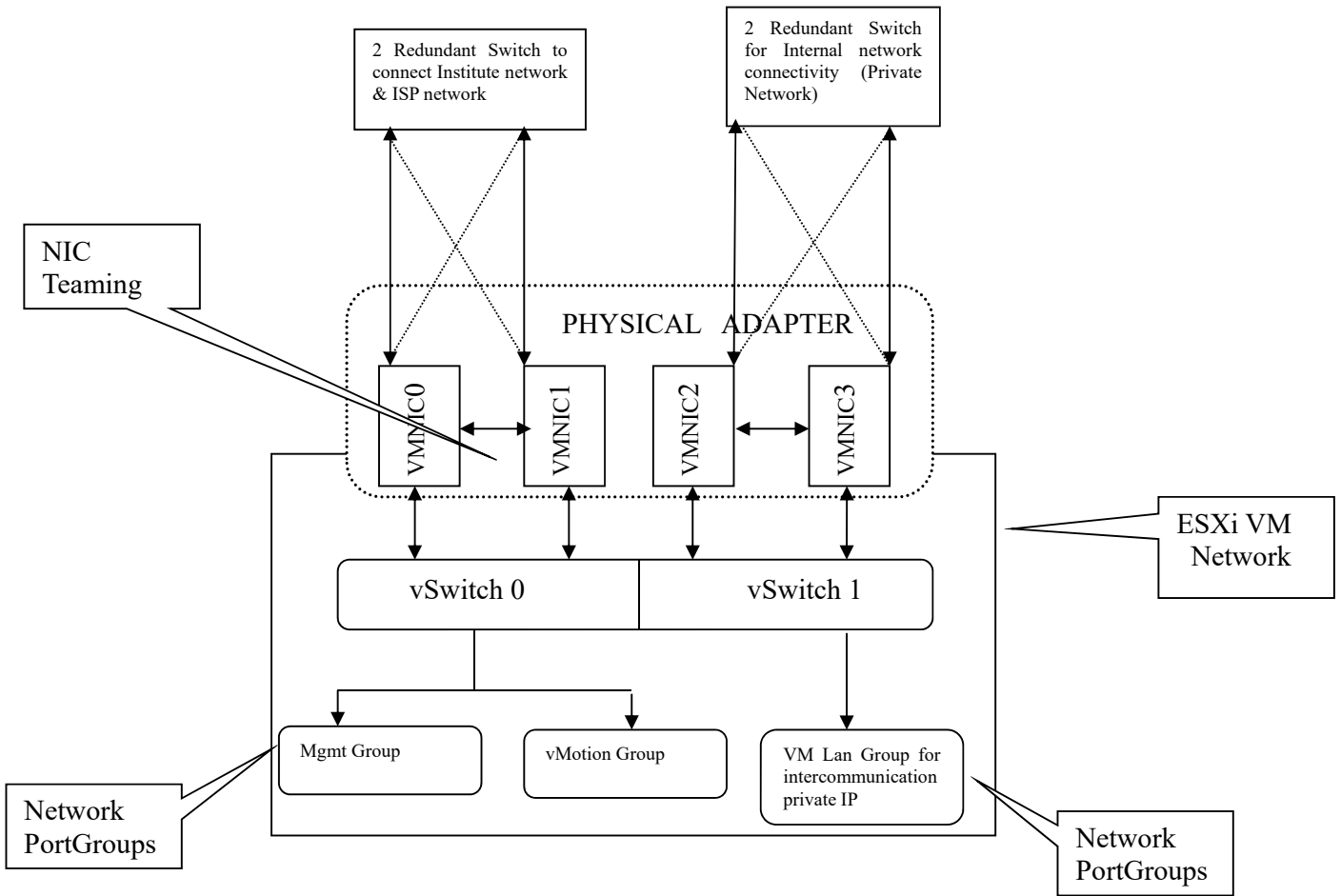
escalation support matrix suggested for the Institute.

5. The OEM must provide details of support structure and escalation matrix.
6. This is a critical infrastructure supporting a national level project and IIT Kharagpur reserves the right to reject any bid if the support infrastructure is not deemed to be adequate by the technical evaluation committee.

## **6. Other Terms and Conditions**

1. Technical bid should contain all relevant technical details; printed technical leaflet of models quoted and other details, which may be necessary to ensure that the offer is complete in all respect e.g. technical specifications, etc.
2. Technical bid must also contain
  - a. Compliance Certificate against each item in the detailed technical specifications duly signed by the bidder.
  - b. Unpriced Bill of Materials
  - c. Compliance to General Terms and Conditions
3. L1 bidder will be decided based on the grand total of prices (Hardware and software) of all items mentioned in the tender.





**Figure 2: Logical connectivity diagram in Virtual Systems**

## **ANNEXURE-1**

### **Detailed Technical Specifications of Servers, Storage, L2 Switch, and Other Accessories**

#### **1. Specification for Rack Servers**

No. of rack servers to be supplied: 6

<b>Component</b>	<b>Minimum Specification</b>
Processor	Intel Xeon E5-2600v4 series, 2.2GHz (Base Frequency) or higher
Front Side Bus	Intel QPI – 9 GT/s or higher
No. of Processors	2
Number of Cores per processor	20 or higher
L3 Cache	2.5 MB per core or higher
DIMM slots	24 or higher
Memory	256GB DDR4 2400 MHz ECC RAM (or higher). Must have free slots to upgrade to 512 GB.
Hard Disk	2 x 600 GB 10K rpm or higher hot swap SFF SAS drives
Raid Controller	Integrated PCI 3.0 RAID Controller
Network Interface	Minimum 4 x 1Gbps + 2 x 10Gbps ports (fully populated with MMF modules from day 1)
FC Ports	2 x 16Gbps populated with fiber modules from day 1
USB Ports	4 or higher, of which at least 2 must be USB 3.0
Bus Slots	At least one PCI-Express slots
Power Supply	Dual redundant (1+1) hot-plug power supplies, 750W or higher
Fans	Redundant hot-swap fans
OS & virtualization Software	Perpetual License for VMware vSphere 6.0 Standard or above virtualization software with 3 years support (for each of the six servers) VMware vCenter server 6.0 Standard or above for vSphere with 3 years support (Only one for all 6 servers)
Form Factor	1U
Warranty	5 years comprehensive onsite OEM warranty except virtualization software.

## **2. Specification for SAN Storage**

No. of SAN storage to be supplied: 1

<b>Component</b>	<b>Minimum Specification</b>
Architecture /Storage Controller	Storage must be designed with two controllers running in high availability pair mode with automatic failover to each other. Controllers shall be true active-standby so that a single logical unit can be shared across all offered controllers. All necessary hardware and software for this must be supplied by the bidder.
Host Interface	Minimum 2 x 16Gbps FC Ports per controller and 2x10Gbps iSCSI ports populated with MMF modules from day 1. Separate management port per controller.
Backend Interface	At least 2 backend ports per controller with 6Gbps or higher SAS or 8 Gbps or higher FC. Total backend bandwidth must be at least 24 Gbps per controller.
Capacity	The storage shall support SAS, SSD and SATA/ NL SAS/ MDL SAS based disks simultaneously. The storage should be provisioned with 40 TB of usable capacity (with RAID 5/6 and with at least 4 disk groups) with 600 GB or lower 10K rpm hot swap SFF SAS disk. Bidder must mention exact number and type of disks supplied.
Cache	Minimum 32 GB Read-Write cache per controller. Battery/Flash based cache backup for minimum 72 hours. Cache memory must be mirrored across controllers.
RAID Levels	It should support hardware RAID 5, 6
Scalability	The storage should be scalable to more than 200 drives in different enclosures
Hard Disk Type	Storage should support SSD, NL-SAS/SATA and enterprise SAS Drives in the same enclosure for future expansions.
Storage functions	The storage shall support security features like LUN masking, Zoning and the storage controller should have an ability to be divided into multiple logically separate controller and each logically separate controller should have separate admin rights. This functionality is required to create secure tenant environment for various application/workload/user department. The storage shall support standard storage (SAN) security features.
Operating System support	Host OS Support (Minimum): Support for industry-leading Operating System platforms including: LINUX (Latest versions of CentOS, Ubuntu, Redhat), Microsoft Windows Server 2012, VMWare Esxi (Version 6.0 and above) etc.
Power and Cooling	Redundant hot swap power supply and cooling fans.
Management Options	Storage must be supplied with all necessary hardware appliance and software for carrying out all management (configuration, diagnostics etc.) activities on the storage.
Licenses	All necessary software and hardware license must be perpetual, with free upgrades and support for the entire warranty period.
Connectivity Cables	All necessary power and data cables required for the installation.
Rack mounting	Storage must be 19-inch rack mountable. Necessary mounting kit to install the SAN storage in a 42U rack must be supplied.
Warranty & Support	5 years comprehensive onsite OEM warranty including software/firmware upgrades.



### **3. Specification for 16-port SAN Switch**

No. of switch to be supplied: 2

<b>Components</b>	<b>Minimum Specifications</b>
Port Configuration	16 or more number of 16 Gbps FC ports. All ports on the supplied FC SAN switch must be licensed and fully populated with fiber modules from day 1. Cables necessary for end to end network connectivity should be quoted.
Management	Web-based management interface
Security	Switch access password protection
Power and Cooling	The switch must have redundant power supply and fan modules
Warranty	5 years comprehensive onsite OEM warranty

### **4. Specification for 10G Ethernet Switch**

10G switch to be supplied: 2

<b>Components</b>	<b>Minimum Specification</b>
Port Configuration	Layer 2 switch with 12 or higher no. 10G SFP+ Ethernet ports fully populated with MMF modules from day 1 with additional two dedicated stacking ports with necessary cables. All ports must be ready to use from day 1.
Management	Web-based management interface; BootP/DHCP IP address management or Static IP address assignment.
Security	Switch access password protection (read-only and read-write access).
Power and Cooling	The switch must have redundant power supply modules and fan modules
Warranty	5 years comprehensive onsite OEM warranty

### **5. Specification for 1G/10G Ethernet Switch**

No. of switches to be supplied: 4

<b>Components</b>	<b>Minimum Specification</b>
Port Configuration	Layer 2 switch with 24 or higher no. of 1G RJ45 Ethernet ports and 4 no. 10G SFP+ Ethernet ports populated with MMF modules from day 1. All ports must be ready to use from day 1.
Management	Web-based management interface; BootP/DHCP IP address management or Static IP address assignment.
Security	Switch access password protection (read-only and read-write access).
Power and Cooling	The switch must have redundant power supply and fan modules
Warranty	5 years comprehensive onsite OEM warranty

## **6. Specification for KVM Switch**

No. of switch to be supplied: 1

Rack mountable, 16 port or higher Analog USB KVM Switch, with 5 years comprehensive onsite warranty. KVM switch needs to be fitted in the rack itself. All necessary cables to connect the servers to the switch and monitor/keyboard/mouse must be provided by the bidder.

## **7. Specification for Monitor, Keyboard, Mouse**

No. of monitor, keyboard, mouse to be supplied: 1 each

21 inch or higher LED monitor, USB keyboard, USB mouse (need not be rack integrated)

5 years comprehensive onsite warranty should be provided for all.

## ANNEXURE-2

### Detailed Technical Specifications of L3 Switch and Firewalls

#### 1. Specification for L3 Switch

No. of L3 Switch to be supplied - 1

Sl. No.	Minimum Specification
<b>1</b>	<b>Switch Architecture</b>
1.1	The Switch should be 19" rack mountable, have at least 12 x 1Gbps SFP+ ports (populated with 1000BaseLX MMF modules from day 1) and 2 x 10G SFP+ uplink Ports (no modules needed at this time). All ports must be licensed from day 1.
1.2	The Switch should have redundant Power Supplies.
1.3	The Switch should be stackable and able to stack at least 4 switches.
1.4	The Switch Stack Architecture should be Plug & Play for attaching or removing any switch from the stack without any downtime.
1.5	The Switch Stack Architecture should allow the end user to stack 24 Port Switch with 48 Port of the same model.
1.6	The Switch should be capable of terminating wireless control plane from locally connected AP's.
1.7	The Switch should be based on a Modular OS Architecture capable of hosting applications.
1.8	The Switch should have RJ45 Console Ports and at least 1 x 10/100/1000BaseT dedicated Ethernet port for Management
1.9	The Switch should have at least 2GB of Flash and at least 4GB RAM.
1.10	The Switch should have at least 3 field replaceable fans and incase of failure of any one of those the other fans should automatically speed up to cool the switch.
<b>2</b>	<b>Switch Performance</b>
2.1	The Switch should have at least 60 Gbps of Switching bandwidth.
2.2	The switch should have at least 50 Mpps of forwarding rate.
2.3	The Switch should have at least 150 Gbps of Stack Bandwidth.
2.4	The Switch should support at least 30000 MAC Addresses
2.5	The Switch should support at least 20000 IPv4 routes
2.6	The Switch should support at least 4000 VLAN ID's & 1000 SVI's.
<b>3</b>	<b>Layer 3 Features</b>
3.1	The switch should support Static Routing
3.2	The Switch should support IPv6 Host Support, IPv6 Port ACLs and IPv6 First Hop Security
3.3	The Switch should support Syslog over IPv6
3.4	The switch should support Switch Virtual Interfaces (SVI's)
3.5	The switch should support HTTPs and SNMP
<b>4</b>	<b>Layer 2 Features</b>
4.1	The Switch should be able to discover (on both IPv4 & IPv6 Network) the neighboring device giving the details about the platform, IP Address, Link connected through etc., thus helping in troubleshooting connectivity problems..
4.2	The switch should support Detection and disabling of Unidirectional Links to avoid problems such as spanning-tree loops.
4.3	The switch should support centralized VLAN Management; VLANs created on the core switch should be propagated automatically.
4.4	The switch should support 802.1d, 802.1s, 802.1w Spanning-Tree & its Enhancement for fast convergence.
4.5	The switch should support 802.1q VLAN encapsulation.
4.6	The switch should support 802.3ad (LACP) to combine multiple network links for increasing throughput and providing redundancy.
<b>5</b>	<b>Network Security Features</b>

5.1	The switch should have Port security to secure the access to an access or trunk port based on MAC address to limit the number of learned MAC addresses to deny MAC address flooding.
5.2	The switch should support DHCP snooping to prevent malicious users from spoofing a DHCP server and sending out rouge addresses.
5.3	The switch should support Dynamic ARP inspection (DAI) to ensure user integrity by preventing malicious users from exploiting the insecure nature of ARP.
5.4	The switch should support flexible & multiple authentication mechanism, including 802.1X, MAC authentication bypass, and web authentication using a single, consistent configuration.
5.5	The switch should support MAC address notification to allow administrators to be notified of users added to or removed from the network.
5.6	The switch should support IGMP filtering to provide multicast authentication by filtering out nonsubscribers and limits the number of concurrent multicast streams available per port.
5.7	The switch should support Port-based ACLs for Layer 2 interfaces to allow security policies to be applied on individual switch ports.
5.8	The switch should support SSH Protocol, Kerberos, and SNMPv3 to provide network security by encrypting administrator traffic during Telnet and SNMP sessions.
5.9	The switch should support TACACS and RADIUS authentication to facilitate centralized control of the switch and restricts unauthorized users from altering the configuration.
5.10	The switch should support Multilevel security on console access to prevent unauthorized users from altering the switch configuration.
<b>6</b>	<b>Wireless Features</b>
6.1	The switch should be capable of terminating at least 25 AP locally per switch and able to handle at least 1000 clients on Wireless control plane.
6.2	The switch should be capable to run in either in Wireless Controller Mode or Wireless data plane terminating mode or both.
6.3	The switch should be capable of configuring at least 64 WLAN per switch.
6.4	The switch should be compatible to run in Wireless data plane terminating mode with external wireless controller of the same OEM.
6.5	The switch should be capable of terminating the wireless control plane of the IEEE 802.11 a/b/g/n and 802.11ac AP
<b>7</b>	<b>Quality of Service (QoS) &amp; Control</b>
7.1	The switch should support Advanced Modular Wired and Wireless QoS Policies
7.2	The switch should have inbuilt mechanism to distribute bandwidth amongst wireless clients to ensure all users have a fair share on bandwidth.
7.3	The switch should be capable of deploying QoS policies at multiple levels based on AP, Radio, SSID & clients who are directly connected to the switch.
7.4	The switch should be capable of Queuing, Policing, Shaping and marking Wired and Wireless Traffic based on Class of Service (CoS) or DSCP.
7.5	The switch should support Auto QoS for certain device types and enable egress queue configurations.
7.6	The switch should support 802.1p CoS and DSCP Field classification using marking and reclassification on a per-packet basis by source and destination IP address, MAC address, or Layer 4 Transmission Control Protocol/User Datagram Protocol (TCP/UDP) port number.
7.7	The switch should support Rate limiting based on source and destination IP address, source and destination MAC address, Layer 4 TCP/UDP information, or any combination of these fields, using QoS ACLs (IP ACLs or MAC ACLs), class maps, and policy maps.
7.8	The Switch should support Eight egress queues per port for wired traffic and four egress queues for wireless to enable differentiated management of different traffic types across the stack for wired traffic.
<b>8</b>	<b>Application Visibility</b>
8.1	The switch should support Flexible Netflow .
8.2	The switch should support at least 20000 Flows per switch.
8.3	The switches when stacked together should be capable to exporting the flow independently / directly to the FnF Collector.
8.4	The switch should be capable of showing customized reports on event alarms or policy violations when they are predefined.
8.5	The switch should be capable of supporting traffic monitoring, and traffic analysis without the need of an External Appliance

<b>9</b>	<b>Standards &amp; Compliance</b>
9.1	IEEE 802.1D, IEEE 802.1s, IEEE 802.1w
9.2	IEEE 802.1x
9.3	IEEE 802.1x-Rev
9.4	IEEE 802.3ad
9.5	IEEE 802.1p CoS Prioritization
9.6	IEEE 802.1Q VLAN
9.7	The switch should support IEEE 802.3 10BASE-T specification, IEEE 802.3u 100BASE-TX specification, IEEE 802.3ab 1000BASE-T specification, IEEE 802.3z 1000BASE-X specification
9.8	The Switch should support an Energy Efficient Ethernet (802.3az)
9.9	RMON I and II standards
9.10	SNMPv1, SNMPv2c, and SNMPv3
<b>10</b>	<b>Safety, EMI and EMC Compliance and Certification</b>
10.1	UL 60950-1 Second Edition
10.2	CAN/CSA-C22.2 No. 60950-1 Second Edition
10.3	EN 60950-1 Second Edition
10.4	IEC 60950-1 Second Edition
10.5	47CFR Part 15 (CFR 47) Class A (FCC Part 15 Class A)
<b>11</b>	<b>Support &amp; Warranty</b>
11.1	5 years comprehensive on site OEM Warranty. Support warranty documents for five years from the OEM must be submitted

## 2. Specification of Firewalls

No. of Firewalls to be supplied – 2

Sl. No.	Minimum Specification
<b>1</b>	<b>Hardware Architecture</b>
1.1	19” rack mountable appliance based security platform with firewall and application visibility support. Should be possible to provide IPS functionality within the same appliance in the future by addition of modules/software/licenses.
1.2	At least 12 no. 1G RJ45 ports and 4 no. SFP+ ports. Two of the SFP+ ports must be populated with 1000BaseLX MMF modules from day 1. Should have provision for future scalability for additional 8 SFP+ ports by adding network modules. All ports must be licensed for use from day 1.
1.3	Multicore CPU architecture with a hardened 64 bit operating system to support higher memory
<b>2</b>	<b>Performance and Scalability</b>
2.1	Firewall should support at least 4 Gbps of throughput (including firewall, application visibility and IPS)
2.2	Firewall should support at least 2,000,000 concurrent sessions
2.3	Firewall should support at least 20,000 connections per second with Application visibility
2.4	Firewall should support at least 1000 VLANs
2.5	Firewall should support 802.3ad Etherchannel functionality to increase the bandwidth for a segment.
<b>3</b>	<b>High Availability Features</b>
3.1	Firewall should support automatic Active/Standby failover
3.2	Firewall should have integrated redundant power supply
3.3	Firewall should have redundant hot-swappable FANs
<b>4</b>	<b>Other Features</b>
4.1	Firewall should support L3/L4 stateful inspection
4.2	Firewall should support creating access-rules with IPv4 & IPv6 objects simultaneously
4.3	Firewall should support operating in routed & transparent mode
4.4	Firewall should support Static routing, RIP, and OSPF
4.5	Firewall should support manual NAT, auto-NAT, static NAT, dynamic NAT, dynamic PAT
4.6	Firewall should support Nat66 (IPv6-to-IPv6), Nat 64 (IPv6-to-IPv4) & Nat46 (IPv4-to-IPv6) functionality
4.7	Firewall should support VPN (IPSec and SSL)
4.8	Firewall should support security policies based on security group names in source or destination fields or both
4.9	Should be capable of automatically providing the appropriate inspections and protections for traffic sent over non-standard communications ports.
4.10	Should be capable of detecting and blocking IPv6 attacks.
4.11	Should support the capability to quarantine end point
<b>5</b>	<b>Management features</b>
5.1	The management platform must be accessible via a web-based interface ideally with no need for additional client software
5.2	The management platform must provide a highly customizable dashboard.
5.3	The management platform must be capable of role-based administration, enabling different sets of views and configuration capabilities for different administrators subsequent to their authentication.
5.4	Should support REST API for monitoring and config programmability
5.5	The management platform must provide multiple report output types or formats, such as PDF, HTML, and CSV.

5.6	The management platform must support multiple mechanisms for issuing alerts (e.g., SNMP, e-mail, SYSLOG).
5.7	The management platform must provide robust reporting capabilities, including a selection of pre-defined reports and the ability for complete customization and generation of new reports.
5.8	The management platform must include an integration mechanism, preferably in the form of open APIs and/or standard interfaces, to enable events and log data to be shared with external network and security management applications, such as log management tools.

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## GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER: -

1. TENDER ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.
2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.
3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.
4. **PRICE BIDS:** PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR KOLKATA EXTENSION CENTRE, HC BLOCK, SECTOR-III, SALT LAKE CITY, KOLKATA-700106, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP OF BASE PRICE AND APPLICABLE TAXES FOR EACH ITEM SEPARATELY. PRICES SHOULD BE INCLUSIVE OF INSTALLATION, COMMISSIONING, AND WARRANTY/GUARANTEE SUPPORT.

**ALL PRICES MUST BE QUOTED IN INDIAN RUPEES ONLY.**

5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.
6. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).
7. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING
8. **PAYMENT TERMS:**
  - A) 90% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION AND CONDITION AND SUCCESSFUL INSTALLATION AND COMMISSIONING. THE REMAINING 10% PAYMENT WILL BE RELEASED ON SUBMISSION OF PERFORMANCE BANK GUARANTEE OF EQUAL AMOUNT VALID FOR END OF WARRANTY PERIOD PLUS THREE MONTHS.
  - B) ENSURE MENTIONING
    - i) BANK DETAILS OF THE BENEFICIARY AND PAN NUMBER
    - ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED
9. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.
10. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.



11. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXCEMPTION IN TERMS OF GOVT. NOTOFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.
12. **DELIVERY PERIOD:** WITHIN 10 WEEKS OF RECEIVING CONFIRMED PO.
13. **LIQUIDATED DAMAGES:**
  - A) THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IF THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.
  - B) SUCCESSFUL INSTALLATION AND COMMISIONING MUST BE COMPLETED WITHIN FOUR WEEKS OF DELIVERY OF STORES OR HANDOVER OF SITE, WHICHEVER IS LATER, FAILING WHICH LIQUIDATED DAMAGES WILL BE CHARGED AT THE SAME RATE AS MENTIONED ABOVE. THIS LIQUIDATED DAMAGE WILL BE IN ADDITION TO ANY LIQUIDATED DAMAGE CHARGED FOR LATE DELIVERY AS MENTIONED ABOVE.
14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.
15. ONLY THOSE BIDDERS WHOSE BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.
16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.
18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.
19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-
  - A) CURRENT INCOME TAX AND SALES TAX CLEARANCE CERTIFICATES AND PAN NO.
  - A) BANKER'S SOLVENCY CERTIFICATE
  - C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY'S KEY PERFORMANCE

DESCRIPTION	JAN. TO MARCH	APRIL TO JUNE	JULY TO SEPT.
GROSS REVENUE			
PROFIT BEFORE TAX			
PROFIT AFTER TAX			
RETURN ON INVESTED CAPITAL (ROIC)			

D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. **WARRANTY / GUARANTEE:** THIS COMPREHENSIVE WARRANTY / GUARANTEE SHALL REMAIN VALID FOR **60 MONTHS** AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.
21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.
22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO **DR. B. SUTRADHAR, LIBRARIAN, CENTRAL LIBRARY, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - 721 302** AND ACKNOWLEDGEMENT TO BE OBTAINED.

**IMPORTANT**

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and / or replacement of any damaged item (s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to **Dr. B. Sutradhar**, at the address mentioned above.

**LAST DATE FOR SUBMISSION OF SEALED BIDS: 15.05.2017**

- 1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
- 2) Fax, e-mail Tender will not be accepted.
- 3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service other terms and conditions of the Institute will apply.