INDRAPRASTHA INSTITUTE *of*
INFORMATION TECHNOLOGY
DELHI

**Tender for Purchase of One Number of Chassis & One Number of Blade Server
for Permanent Campus of the Institute at
Okhla Phase-III, New Delhi-110020**

(Tender no. IIITD/S&P/14/2015-16)

INVITIATION FOR BIDS

1. Indraprastha Institute of Information Technology (IIITD), Delhi a State University created by an Act of Govt. of NCT of Delhi invites sealed financial bids for purchase of Chassis and Server (as per specification mentioned under Scope of Work below) for its permanent campus at Okhla Phase-III New Delhi-110020 (behind Govind Puri Metro Station).

2. An amount of Rs.25,000/- (Rupees Twenty Five Thousand only) towards earnest money (EMD) must be deposited in the form of demand draft in favor of IIIT-Delhi Collection Account, payable at New Delhi. No interest shall be payable on the earnest money deposited by the bidder. Tender Document without earnest money will be summarily rejected.

3. Please enclose non-refundable Tender Document Fee of Rs.1,000/- (One Thousand only) in the form of Demand draft drawn in favor of IIIT-Delhi Collection Account payable at New Delhi. The amount can also be deposited in cash with Accounts Division of the Institute in Room no.101, First Floor Academic Building. Receipt of deposit of cash must be enclosed with the tender document.

4. The last date for submission of bids is 1st March 2016 up to 3:00 PM. The Tender Document should be addressed to:

   Registrar,
   Indraprastha Institute of Information Technology, Delhi
   Okhla Phase-III
   (Behind Govind Puri Metro Station)
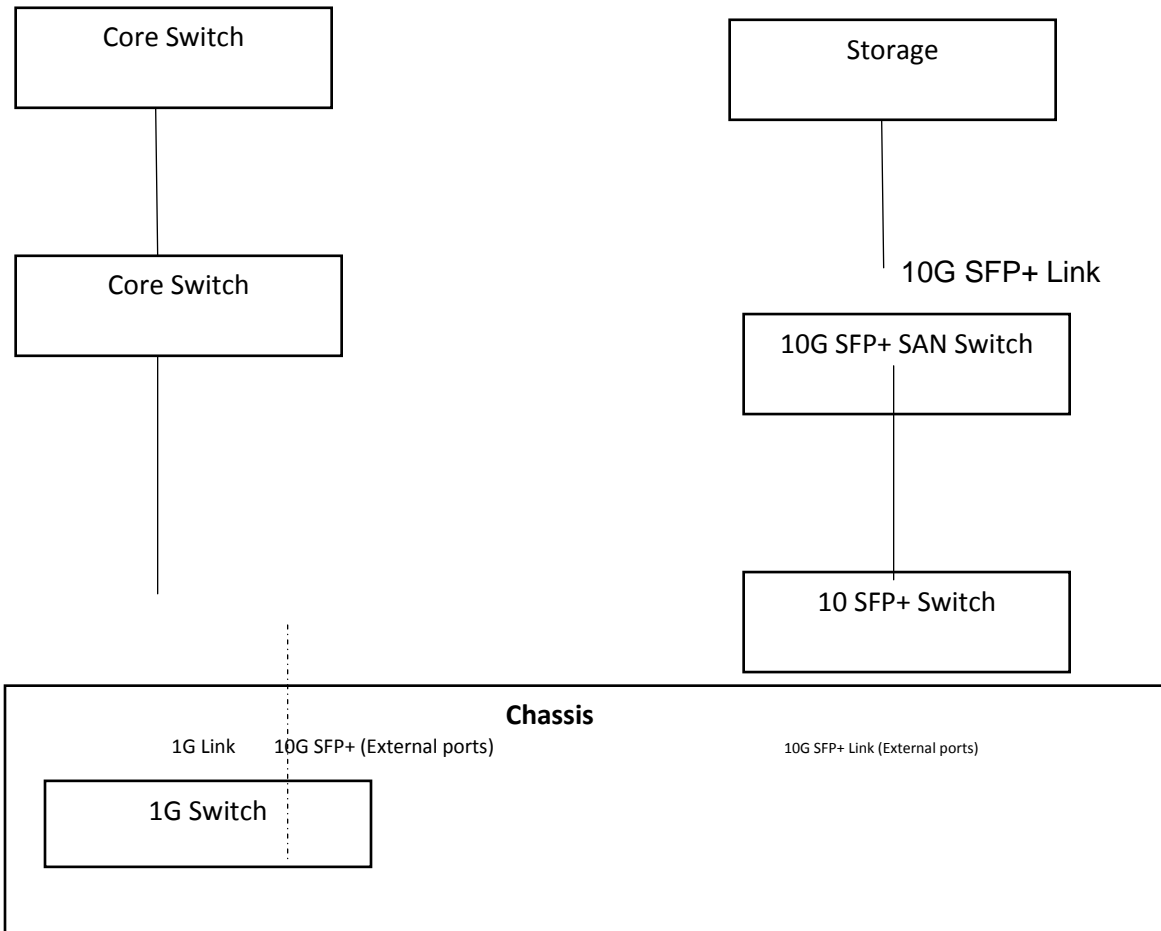   New Delhi-110020.

   The document may be deposited in the Tender Box kept in the Store Room of the Service Block of the Institute. Bids received after 3:00 PM will not be accepted or considered under any circumstances.

5. The bids shall be opened on the same day i.e. 1st March 2016 at 3:30 PM in the presence of the bidder or their authorized representatives.

6. The chassis and blade server is to be supplied as per technical specifications mentioned below:

Component	Requirement
Form Factor	Chassis should be of 10U or lesser (Rack Units), must hold 16 half height and 8 full height blade servers.
Management and Monitoring	**<u>Chassis</u>** 1. Must have Chassis Monitoring Module (Must show real time data and historical data, logs) and internal KVM switch for managing the blade chassis locally as well as remotely. 2. Enclosure should support Intel and Non-Intel based processor based blade. 3. Chassis must provide support to install half height server along with full height servers and vise-versa. 4. Chassis monitoring module must provide monitoring of servers, internal switches and other peripheral devices. 5. If possible should trigger automatic alerts in case of any part or device failure. Also should log calls automatically to the service desk of OEM to address the issue. 6. Chassis should provide Front LCD for management. 7. Chassis should support Servers with dual processor sockets. 8. Chassis should support minimum total of 320 cores and 5 TB RAM 9. If possible the chassis should be capable of having a physical server which can be configured as a standby server for rest of the physical servers within the chassis or any other physical chassis (from same OEM). In case of any physical server goes down, it should automatically failover to the standby server. 10. The solution should forwards Simple Network Management Protocol 11. (SNMP) events and Syslogs to external consolidation tools, and forwards email notifications to one or more subject matter experts. **<u>Blade</u>** 1. Blade Servers should be accessible from front of the chassis.

Network	1. Enclosure must provide one Gigabit Ethernet managed switch having at least 16 internal ports and 4 external ports out of which if possible 2 Ethernet and two 10G SFP+ ports 2. Enclosure must also provide one Ten Gigabit Ethernet managed switch having at least 16 internal port and 4 external ports. 3. Two ports from each blade server to be connected to the internal ports of the two switches. 4. Must have capability to support and install simultaneously InfiniBand switch, Fiber channel FCOE switch Gigabit/TenGigabit switches. 5. Must have external connectivity port for DAC cable.(To connect to existing SAN Switch) 6. Should Supply if any other accessories is required to connect the existing storage (Dell Compollent Storage Center 20693) 7. Switches must support Open networking/IEEE networking protocols, for e.g. 802.1d,802.3ad,VLAN etc. and IPv4/IPv6 8. Performance: - 100% line rate performance , Less than 1 microsecond latency , 1.28Tbps non-blocking switching throughput (full duplex).
Power and cooling	1. Redundant hot pluggable, Hot-swappable, power supply and grid-redundancy. All servers and chassis and its modules must remain powered on in case of failure of one of the supplies. Power supply should be 80 plus platinum certified 2. Blade enclosure should have a cooling system consisting of redundant hot pluggable fans/blowers. Must have efficient airflow.
Midplane and Backplane	1. Should provide highly reliable and high performance midplane / backplane design in the blade enclosure.
Warranty and Support	1. 3 years of 24x7 onsite hardware and technical support. And next business day delivery for the part replacement. Proposed Chassis should be available in Market (should not be End of Life) for next 7 Years and support should be available (should not be End of Support for Next 5 Years after that)

Connectivity Diagram

Core Switch

Storage

10G SFP+ Link

Core Switch

10G SFP+ SAN Switch

10 SFP+ Switch

Chassis

1G Link   10G SFP+ (External ports)   10G SFP+ Link (External ports)

1G Switch

Blade Server Specification

Qty. – 01

Components	Requirements
Processor	2 physical processors. Each processor is Intel(R) Xeon(R) CPU Xeon® Processor E5-2650 v3 2.3 Ghz 25M cache
RAM	96 GB @1600 Mhz provision should be there to scale up the memory
HDD	Two * 1TB SAS hot pluggable 10k HDD
Storage Controller	RAID controller to support RAID 0,1,5,and 6.with minimum 1GB of Cache
Network	Network: At least 2 network port: 10G & 1G.Must be able to
Management	Service processor: Remote management through command line, IPMI, Browser. Power management and monitoring capability. Software needed for this need to be provided with license (if any).Must have Management port for e.g IDRAC in Dell or iLO in HP Servers
Virtualization	Must support hardware virtualization.
Power	Redundant hot swappable power supply and fan
Warrant & Support	At least 3 years 24x7 customer site warranty. The warranty will count from the date of installation. It is not mandatory to have preinstalled operating system. One should be able to install open source operating system e.g., RHEL 7 Linux

TERMS AND CONDITIONS

1. The financial bid should be valid for a period of not less than 30 days from the date of opening of bid.

2. The product is to be supplied within a period of 2-3 weeks from the date of issue of Purchase Order (PO) by the Institute.

3. The bidder should be Authorized Dealer from OEM. Certificate to this effect from OEM needs to be attached along with the bid.

4. Bids will be opened in the presence of bidder's representatives, who choose to attend on the specified date and time. Only one representative shall be allowed to attend.

5. Sealed bid can be sent either by post or by messenger. The responsibility of delivery of bid lies entirely with the bidder.

6. Payment will rereleased after successful commissioning as certified by Officer in Charge of the Institute.

7. In the event of dispute, Director, IIIT-Delhi shall be the sole arbitrator and his decision shall be final and binding on both the parties.

8. IIIT-Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.

9. In case the reseller is not able to execute the Order, EMD amount of Rs.25, 000/- (Rupees Twenty Five Thousand only) shall be forfeited.

10. For subsequent purchase of blade servers, on the date of purchase, the vendor shall provide following documents to the Institute:

    (i)   Copy of the latest Purchase Order (not older than 30 days) placed by any other Govt. Organisation for the similar configuration,
    (ii)   Copy of the "List Price" of the Product,

PROFORMA FOR FINANCIAL BID

S. No.	Name of the Item	Qty.	Base Price (Rs.)	Taxes (Rs.)	Total Price (Rs.)
1	Chassis	01			
2	Blade Server	01			
		Total			
Total in words: Rupees					

We accept that the rate quoted above shall remain valid for a period of 30 days from the date mentioned below. The product/part shall be supplied within a period of 2-3 weeks from the date of placing Purchase Order on us. In case we are not able to honor the supply, we understand that EMD of Rs.25,000/- (Rupees Twenty Five Thousand only) deposited vide demand draft / cash receipt no…………………..dated…………………..drawn on……………………bank will be forfeited by the Institute.

(Signature and seal of the Bidder)

Date: