

ERNET India
(An Autonomous Scientific Society under Department of Information Technology, GoI)
10th Floor, Jeevan Prakash Building,
25, K.G. Marg,
New Delhi - 110 001.

No. EI-D/Tech/39-58/2013
Dated : 31th July' 2013
Late Date of receiving the Query 7th August 2013
Response to Query : 12th August, 2013
Due Date : 19th August 2013 Time 3.00 P.M.
Opening of Bids : 19th August 2013 Time 3.30 P.M.

To

Subject : Supply and Installation of Blade Chassis and 2 – Way Blade Server and Storage

Sir,

ERNET India, an Autonomous Scientific Society under Department of Information Technology, Govt. of India, is a Class `A' Internet Service Provider for the Education and Research community in India.

2. ERNET India is a nodal network for integrating education & research institutions in the country. Internet service is one of the services being provided by ERNET India to these institutions. The services are provided through 15 Points of Presence (PoPs) located at the premier education & research institutions in the country. All these PoPs are connected on high-speed backbone with international connectivity. More than 1000 educational institutions are connected on the Network through these nodes.

3. Sealed tenders are, therefore invited from the reputed manufacturers or their authorized representatives for supply of items as per **Annexure-I**.

The following instructions should be carefully noted:

GENERAL CONDITIONS

1. The bidder must be a reputed manufacturer or his authorized representative of the type of product offered. The authority from the manufacturer/distributor must be submitted along with the bid. **The bids received without authority will liable to be rejected.**

2. Quotations should be submitted in two separate sealed covers. First cover indicating, "**COVER FOR TECHNICAL SPECIFICATION**" should consist of only technical specification of the system offered along with literature, pamphlets, drawing etc. This cover should contain complete technical specifications, make, model, names of supplier/manufacturer and commercial terms etc. of the system offered. Price column in this cover should be kept blank. Second cover indicating, "**COVER FOR PRICE BID**" should consist the same details of first cover as well as price details also. **Both the covers should first be sealed separately**, and then both the covers should be kept **in a single sealed bigger cover**. This cover addressed by name to the officer signing this enquiry should be submitted before due date and time.

3. Bids should be valid for a minimum period of 180 days after the due date.

4. Envelope should bear the inscription

“Quotation for Supply and Installation of Blade Chassis and 2 Way Blade Server and Storage”

“Tender Enquiry No.: EI-D/Tech/39-58/2013”

5. The Bids must reach the undersigned on or before the due date. Bids received after the due date & time is liable to be rejected. In the event of due date being a closed holiday or declared Holiday for Central Government offices, the due date for submission of the bids will be the following working day at the appointed time & venue.

6. The rates should be quoted in Indian Rupees for delivery at the premises of ERNET India. All prices shall be fixed and shall not be subject to escalation of any description. The rates must be quoted as per the Performa provided in **Annexure-II**. Price comparison will be made as per bill of material specified in **Annexure – II**.

7. Govt. Levies like sales tax, octroi, WCT etc., if any, shall be paid at actual rates applicable on the date of delivery and must be quoted as per Performa in **Annexure II**. Rates should be quoted accordingly giving the basic price, Plus Sales Tax etc., if any.

8. It may specifically be mentioned whether the quotation is strictly as per tender specifications/conditions. If not, deviations must be spelt out specifically. **In the absence of this, the quotation may be rejected.**

9. Please give the Registration number of the firm along with the LST/CST/WCT No. allotted by the concerned authorities in your quotation.

10. ERNET India reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.

11. The bidders should quote the products strictly as per the tendered specifications giving models, make and exact specifications. All the technical literature for the products offered by the bidder may be enclosed in the bid. **Quotations with incomplete technical details shall be rejected.**

12. **Incomplete quotations are liable to be rejected.**

13. Bidder shall sign all pages of quotation and drawings forwarded with the quotation.

14. In case of any discrepancy between rates mentioned in figures and words, the latter shall prevail.

15. Bidder should quote for all the items.

16. ERNET India may waive any minor infirmity or may seek any clarification, if so desired.

17. Any attempt of negotiation direct or indirect on the part of the tenderer with the authority to whom he has submitted the tender or authority who is competent finally to accept it after he has submitted his tender or any endeavor to secure any interest for an actual or prospective tenderer or to influence by any means the acceptance of a particular tender will render the tender liable to be excluded from consideration.

18. The vendor will have to arrange for all the testing equipment and tools required for installation, testing, maintenance etc.

19. ERNET will have the right to reject the components / equipment supplied if it does not comply with the specifications at any point of installation / inspection.

20. The vendors should give clause-by-clause compliance for the technical specification of the equipments in their technical bids.

21. **INSPECTION**

ERNET India or its representative shall have the right to inspect or to test the items to confirm their conformity to the ordered specifications. The supplier shall provide all reasonable facilities and assistance to the inspector at no charge to ERNET India. In case any inspected or tested goods fail to conform to the specifications, ERNET India may reject them and supplier shall either replace the rejected goods or make all alterations necessary to meet specification required free of cost to ERNET India. Testing will be done in ERNET India Office /LAB

22. **EARNEST MONEY DEPOSIT**

- i) Each quotation must be accompanied by Earnest Money Deposit of Rs.50,000/- (Rupees Fifty Thousand only) shall be in the form of Demand Draft/Pay Order/Bank Guarantee of any Nationalized Bank taken in the name of Chief Finance Officer, ERNET India, New Delhi. Bank Guarantee should be valid minimum for a period of 180 days from due date of the quotation. **Quotations received without Earnest Money Deposit are liable to be rejected.**
- ii) Earnest Money is liable to be forfeited and bid is liable to be rejected, if the tenderer withdraw or amends, impairs or derogated from the tender in any respect within the period validity of the tender.
- iii) The earnest money of all the unsuccessful tenderers will be returned after placement of order on the selected vendor. No interest will be payable by ERNET India on the Earnest Money Deposit.
- iv) The Earnest Money of successful bidder shall be returned after delivery & installation of equipments.
- v) EMD must be submitted in the Technical Part of the Bid. Non-submission of EMD will be treated as non-responsive of the bid and bid will be rejected.

23. **WARRANTY / AMC**

- I) Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts free software up grades. The defects, if any shall be attended to on immediate basis but in no case any defect should prolong for more than 24 hours. The Comprehensive Warranty shall be for a minimum period of three year from the date of acceptance of the equipment by ERNET India.
- II) The firm shall assure to supply the spares parts after warranty is over for maintenance of the equipment supplied if and when required for a period of three years from the date of supply of equipment on payment on approval price list basis.
- III) The firm would also provide AMC in respect of the Blade Chassis on the rates quoted in their bid for a period of two years on per year basis after completion of three years of warranty. AMC would be subject to satisfactory performance during warranty period and issuance of fresh purchase order for AMC. Charges for AMC would be taken into account for deciding L1 bidder.

24. **Payment Terms :**

90% payment shall be made by ERNET India after delivery, testing and acceptance of the equipment as well as receipt of pre-receipted bill in duplicate. 10% payment would be released after expiry of the warranty. However, release of 100% payment would be considered subject to furnishing of Bank Guarantee of the amount equivalent to 10% of the cost of the equipment drawn on any Indian Nationalized Bank in favour of ERNET India valid for the period of warranty.

25. **DELIVERY PERIOD**

The delivery is required within four weeks on placement of the purchase order. However, ERNET India has the right to reduce the delivery period from 4 weeks depending upon the requirement of the equipments. Any delay by the supplier in the performance of delivery of items shall render the supplier liable to any or all the following sanctions-forfeiture of its Earnest Money Deposit, imposition of liquidated damage as per para 26 below or / and cancellation of the purchase order for default.

26. **LIQUIDATED DAMAGES**

In the event of the Supplier's failure to have the stores ready for shipment / delivery by the date / dates specified in this Purchase Order, ERNET India may at its discretion withhold any payment, until the whole of the stores have been supplied by the contractor, as liquidated damages and not any way of penalty at the rates of 1% of the consignment value per week or a part of a week subject to a maximum of 10%. The amount towards Liquidated Damage would be recovered from the amount of Bank Guarantee furnished by the firm or any payment due to the firm.

27. Rates quoted by the Bidder shall be final and no negotiation will be held.

28 . For any query, kindly contact to pm@eis.ernet.in

Yours faithfully,

(Dinesh Dixit)
Registrar & CPO

Blade Chassis Specifications

Sl. No	Features	Specifications
1	Description	Should Provide common resources essential for the Blade Servers like Power, Ethernet, Internal/External Storage
2	Blade Bays	Blade Chassis to accommodate minimum of six quantities of 2 CPU Full/Half Height Hot Pluggable Blade Servers with Dual I/O Connectors for Redundancy.
3	Ethernet Switch	2 redundant 1GB Ethernet switches to be provided in the blade chassis
4	I/O Path for all Fabrics	Blade Chassis should provide complete I/O redundancy to blade servers to provide maximum uptime
5	SAS Switch Modules	Chassis should be configured with Dual Redundant Hot Swap SAS Switch Modules or Fibre Channel Switch Modules for connecting Internal or External Storage and should support hardware RAID 0,1, 5 and 10.
6	Management Modules	Chassis should be configured with integrated IP KVM switch module for managing the Blade chassis locally as well as remotely
7	Power Modules	Chassis should be fully configured with all the Power supplies of highest capacity:
8	Form Factor	8U or lesser
9	CD/Diskette/USB	Chassis should be configured with Internal/external CD-ROM/DVD-ROM Drive
10	System Panel	LED/LCD panel to provide power-on, location, over temperature, information and system error conditions
11	Management Software	Chassis should be provided with management software license to provide blade failover to a standby blade automatically without any manual intervention when ever any blade in the production fails.

2 - Way Blade Server Specifications

Sl. No	Features	Specifications
1	CPU	Latest generation x86 processors. Each Blade Server to be populated with 2 x Intel E5-2630 (6C/12T 2.3GHz-15Mb-7.20GT/s) processors or higher
2	Cache L3	15 Mb of L3 Cache or higher
3	Chipset	Latest chipset to be provided to support above given processor specifications
4	Memory	64 GB Registered DDR-3 1333 MHz or higher ECC Memory Upgradeable to 512 GB with 16 or Higher DIMM slots. Memory modules of 16 GB each should be provided
5	Active Memory protection	ECC memory protection support, memory mirroring and memory sparing
6	Controllers	Redundant Hardware storage controller to support RAID 0, 1, 5 10
7	Disk Drives	Provision of 2x900 GB 10K RPM SAS HDD per Blade Server inside the Chassis to provide space for OS mounted on each blade server.
8	Graphics Controller	Integrated Graphics Controller
9	Diagnostics	Pre Failure Alerts for all active and important components like processors , memory, hard drives
10	Connectivity to Internal / External Storage (HBA)	Redundant SAS or FC connectivity to Internal / External Storage should be available for all Blade Servers directly or through the Blade Chassis
11	Ethernet ports	Blade Server should be configured with four quantities of 1Gbps Ethernet Ports
12	Form Factor	Full/ half Height Blade Servers with Dual Redundant Connectors architecture
13	Failure Alerting Mechanism	The server should be able to alert impending failures on maximum number of components. The components covered under alerting mechanism should at least include Processor, memory, HDDs and expansion cards
14	OS Support	Server should support latest version of MS Windows, Redhat, Novell and VMware
15	Additional Memory	Memory modules of 16 GB each compatible with item 4 above

Unified Storage

S. No.	Make & Model	
1	Unified Storage	The storage shall offer unified architecture and hence shall be configurable with FC, iSCSI, NFS and CIFS protocols for use with different applications.
2	Front End Ports	The storage system shall be configured with minimum 2 X 10 Gbps iSCSI ports + 2 x 1Gbps iSCSI ports
3	Storage Controller	The supplied storage must support no single point of failure from day one including Controllers. The architecture should allow modular upgrades of hardware and software for investment protection. The storage solution should support scalable architecture to allow scaling up the performance and the capacity by adding more controllers or disks, as needed, to the storage system.
4	Cache Memory	The Storage System should have at least 32 GB based usable data cache per controller
5	Drive Connectivity	Storage should have 6G SAS connectivity and it should be able to accommodate 3.5" and 2.5" disk Drives Should be able provide S.M.A.R.T. support
6	Drive Support	Storage should support 300, 450, 600GB, 900 GB & 1.2TB - 2.5"/3.5", 10K, 15K rpm SAS drives. Storage should be able to support 1TB, 2TB, 3TB 7.2K rpm NL SAS drives Storage should be able to support SSD Drives of 200GB, 400GB, 800GB, 2TB capacity
7	Storage Capacity	The storage shall support SSD, SAS and NL SAS based disks simultaneously. The storage shall be supplied with 7.2 TB of raw capacity in RAID 5 configuration on minimum 10K RPM SAS Drives. Each populated hard disk drive should have minimum 900 GB capacity each.
8	Storage Scalability	The proposed storage should be scalable to at least 180 drives. Should support upto 600 drives with controller upgrade option
9	Form Factor	Controller Unit should be of 2U/3 U Expansion enclosures option should be available with 2U 24 bay, 4U high density
10	RAID Functionality	Storage should have RAID levels support for RAID 0, 1, 5, 6, 10, 50, 60 Should support hot-spare drive Should support online expansion by: - Adding new drives, Copying and replacing drives with drives of large capacity, Storage should support RAID migration, Intelligent drive handling In degraded mode it should skip irreparable blocks to continue rebuild and In normal operation it should do data-block verification and repair
11	Data Services	Storage should have support for all the following features: Thin provisioning, Local replication, Snapshot, Volume copy/ mirror, Remote replication - Synchronous or Asynchronous, De duplication, Block and file based replication, Auto Storage Tiering, Unlimited file size, End to end data integrity, Integrated search, Hybrid storage pools via Automated use of SSDs, Virtualization Management. Storage should have Cloud ready storage capabilities Should have Multi-pathing support, Device mapper support and support for Cache Safe technology. And storage should have Redundant, hotswappable hardware modules
12	Notification	Should support various event notification methods including email, LAN, broadcast etc.

13	OS Support	Should have OS Support for Windows Server 2008, 2008 R2 (including Hyper-V), RedHat Enterprise Linux, SUSE Linux Enterprise, Sun Solaris, Mac OS X, Vmware, Citrix
14	Onsite service support	3 years onsite hardware warranty support along with 3 years onsite software support (8x5) including 3 years software updates
15	AC Power	200-240VAC,50Hz
16	Management	Should have easy to use GUI based and web enabled administration interface for configuration, storage management.
17	Rack Mountable	The proposed system must be rack mounted

Annexure-II

PRICE SCHEDULE FOR THE SUPPLY OF

To,

The Registrar & CPO,
ERNET India
10th Floor, Jeevan Prakash Building,
25, K.G. Marg,
New Delhi – 110 001.

Tender No. _____ Date of Opening

We _____ hereby certify that we are established firm of manufactures/authorized agents of M/s. _____ With factories at _____ which are fitted with modern equipment and where the production methods, quality control and testing of all materials and parts manufactured or used by us are open to inspection by the representative of ERNET India. We hereby offer to supply the following items at the prices and within the period indicated below:

Column A

S.No.	Description	Unit	Qty.	Price per Unit free delivery at site (in Indian Rupees)	Total value of offer (in Indian Rupees)	Delivery Period
1.	2.	3.	4.	5.	6.	7.
1.	Blade Chassis		02 *			
2.	Comprehensive Annual Maintenance Charges for Blade Chassis for two years on per year basis after three years of free warranty			@ _____ for Blade Chassis per year Service Tax extra @ _____ %		
3.	2 Way Blade Server		08 *			
4.	Comprehensive Annual Maintenance Charges per 2 Way Blade Chassis for two years on per year basis after three years of free warranty			@ _____ per 2 Way Blade Server per year Service Tax extra @ _____ %		
5	Unified Storage		02 *			
6	Comprehensive Annual Maintenance Charges per Unified Storage for two years on per year basis after three years of free warranty			@ _____ per Unified Storage per year Service Tax extra @ _____ %		

7	Additional HDD of 1.2 Tb for 5 above	
8	Additional HDD of 900 GB for 3 above	
9	Additional RAM Module of 16 GB	

*** ERNET may vary above quantity upwards or downwards based on the requirement.**

Column B

Break up of Price (in Indian Rupees)					
Ex-Factory Price	Sales Tax/ Service Tax, as applicable	Packing and forwarding charges in detail	Freight to Destination at site	WCT/Other charges (if any)	Total free delivery price
A	B	C	D	E	F

1. It is hereby confirmed that we have understood the terms and conditions of the tender and have thoroughly examined specifications and are thoroughly aware of the nature of goods required and our offer is to supply goods strictly in accordance with the requirement and terms and conditions of the tender. We agree to abide by the terms and conditions of the tender if the contract is awarded to us.
- 2.
3. We hereby offer to supply the goods detailed above or such portion thereof as you specify in the purchase order at the price quoted and agree to hold this offer open for acceptance for a period of 180 days from the date of opening of bid.
4. Bid security for an amount equal to Rs./- is enclosed in the form of Bank Draft/Pay Order/ Bank Guarantee.

(Signature and seal of Manufacturer/Bidder)

Dated _____ 2011

