

**INVITATION FOR TENDER  
AND  
INSTRUCTIONS TO TENDERERS**

**Proposal for  
SERC Network Accessible Storage**

**Tender No. SERC/2015/05 dt.29.1.2016**



Supercomputer Education and Research Centre  
Indian Institute of Science

Bangalore 560012

**January 2016**

## **SERC Network Accessible Storage**

SERC is planning to upgrade their storage subsystems that support its computational user home areas. This storage is mainly to accommodate storage, retrieval and backup of user home area data that is made available to the distributed systems using NFS. Majority of accesses to these filesystems are user specific and are mostly serial and not shared. Since the availability of the user home areas is critical to the login and job submission activity of the user, these filesystems additionally have a requirement of high availability.

We invite your quotation for two solution based on following specification

### **File server specifications:**

- Server should be rack mountable
- Processor:
  - two socket system
  - populated with Intel® Xeon® processor E5 v2 or above
  - with 6 cores or more
  - 2.2GHz and above
  - 128GB Memory
  - 4 Gigabit Ethernet ports
  - at least 4 USB ports,
  - onboard graphics
  - redundant power supply
  - one DVD RW drive
  - keyboard, mouse and display
- 2 X 1TB hard disk space (for Operating System)
- Storage connection to the file server in DAS mode is preferred
- PDU integrated rack appropriately sized
- Linux compatible with features to support multipath access to storage, file systems using NFS v3/v4, high-availability (active-active load balancing mode) in case of redundant file servers.
- Option: 10 Gbps Ethernet card

### **1. Storage specifications**

- Storage solution should have two controllers, DAS based solution is preferred
- Hardware RAID6 support
- Battery Backup for Cache (controller)
- Rack-mountable
- Redundant power supply
- Using 3TB SATA Enterprise disks with 7200 RPM (should be under hardware RAID 6 configuration)
- Provision for hot spare disks

The following information must be provided

- Maximum throughput of each controller
- Size of controller cache
- RAID rebuild time
- Data sheet for the product/model proposed

**Request for proposal for the following:**

**1. Solution A:**

**Two file servers in active-active high-availability mode along-with 100TB usable, hardware RAID6 configured storage with suitable and appropriately sized (number of power sockets should be sufficient to connect the proposed solution) PDU integrated rack for housing the solution.**

**2. Solution B:**

**One file server along-with 60TB usable, hardware RAID6 configured storage with suitable and appropriately sized (number of power sockets should be sufficient to connect the proposed solution) PDU integrated rack for housing the solution.**

**2. Bidder's eligibility**

- Should have supplied and installed similar (at least one) to any govt. institution/organization in India in the last one year
- The bidder must have a proven record of maintaining and managing the similar system.
- Bidders should include necessary document for establishing this with necessary proof in terms POS and customer contact details
- Should produce authorization from the OEM

The quotation should comprise **two parts – a technical part including an unpriced bill-of-materials with quantities of the line items and a commercial part**

**Commercial Bid**

- The Commercial bid should contain details of the prices for each one of the subsystems of the total offer giving clearly the rate and the quantity. Bundling of the prices is not acceptable.
- Bidders proposing multiple options must quote for each of the configurations separately

**Guidelines:**

1. The total solution as per the agreed bill of materials has to be supplied within 4 weeks after receiving a firm PO from IISc and the installation to be complete within a week after supply of the equipment.
2. IISc is eligible for customs and excise duty exemption under notification 10/97-ce. Hence please quote the ED component, if any, separately so as to avail exemption on issue of certificate by us. Bidders planning to quote any imported solution have to give the offer in the respective currency.
3. The offer has to clearly explicitly state the supply part, F & I, I & C, Warranty services and any other charges separately.
4. A copy of the masked Commercial bid has to be given in the technical offer.
5. Delayed and/or incomplete tenders are liable to rejection.
6. The Technical Bid and the Commercial Bid should be duly signed by the authorized representative of the bidder.
7. The Technical Bid and the Commercial Bid should be bound separately as complete volumes.
8. No prices information should be mentioned in the Technical Bid.
9. The Director, IISc, Bangalore-12 reserves the right to modify the technical specifications or the required quantity at any time.
10. The Director, IISc reserves the right to accept or reject any proposal, in full or in part, without assigning any reason.
11. The bidders are requested to go through the Terms and Conditions detailed in this document, before filling out the tender. Agreeing to the terms and conditions of the tender document (by signing all pages of the copy of a tender document) is a mandatory requirement.
12. A tender, not complying with any of the above conditions is liable to rejection. Incomplete proposals are liable to be rejected.

**Commercial Terms and Conditions**

1. The commercial bid should contain among other things, payment terms, warranty, installation and commissioning charges. These charges will be paid only after successful supply, installation and acceptance.
2. Prices may be quoted in US Dollars, IISc is eligible for custom duty exemption.
3. Vendor may quote the prices for shipment on 'FOB' terms.
4. Withholding tax, if applicable, will be deducted from the Sight Draft/ Letter of Credit

5. In case of imports, the commercial bid should contain among other things the name and address of the Indian agent, if any and the agency commission payable to him. Agency commission part will be deducted from FOB value, and will be paid to him by us separately in equivalent Indian rupees.
6. In respect of imported solution, IISc will arrange for customs clearance, at Bangalore airport, which will be final destination airport. Hence costs related to customs/clearance need not be included in the offer.
7. In CIF offers of imported solutions, insurance should be on “Warehouse to Warehouse” basis and should not terminate at Bangalore airport.
8. In case of rupee offer, the component of VAT/CST, E.D. and any other statutory levies if applicable should be shown separately and not included in the total amount, to enable us to avail exemption.
9. Price should be quoted per unit and the total amount for the required quantity.
10. Offer should be valid for 60 days from the date of submission.
11. IISc will place the purchase order only on the successful bidder.
12. Any enquiry should be sent to [office@serc.iisc.in](mailto:office@serc.iisc.in)
13. The sealed cover should reach the office of

The Chairman,  
Supercomputer Education and Research Centre (SERC),  
Indian Institute of Science,  
Bangalore 560 012  
on or before the deadline.

#### **Payment Terms:**

The conditions regarding payment terms are as follows:

1. The total project cost will consist of two parts: a. Equipment supply part (Supply) b. Installation, commissioning, warranty and maintenance services part (shortly referred as services), if applicable.
2. The total cost of the system (Supply part) will be paid through Letter of Credit (documents through Bank).
3. Installation charges, if any, payable only in Indian Rupees, will be paid after acceptance of the system. The procedure is as follows: On delivery complete inventory checks mandating confirmation of systems to have been delivered with the ordered configuration. Post this system will be installed with CentOS/ Fedora latest version OS or any other open source Linux that is provided, and subjected to 48 hours of burn-in test. The burn-in test includes running of hardware diagnostics on all components continuously

for a period of 48 hours to eliminate possibility of any hardware failures. The successful completion of the acceptance test results in payment.

**Warranty terms**

- a. Warranty services for the system supplied by the successful bidder should be valid for a period of 3 years from the date of acceptance of the equipment.
- b. During the warranty period, the bidder shall be fully responsible for the manufacturer's warranty in respect of proper design, quality and workmanship of all the systems supplied.
- c. During the warranty period, the bidder shall attend to all the hardware problems on site and shall replace the defective parts at no extra cost to the purchaser.
- d. During the warranty period, the preventive maintenance and repairs of the components supplied by the bidder are the responsibilities of the bidder.

**IMPORTANT DATES:**

**January 29, 2016: Enquiry letter sent to Vendors/Tender Published on the Web**

**February 03, 2016, 4.00 p.m.: Prebid clarification meeting**

**February 10, 2016: Last date to submit quotes**