DEPARTMENT OF BIOTECHNOLOGY – INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI – 600 036

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Dr.KARUNAGARAN Prof & Head

Date: 16th Jan 2015

Ref: BT/SMAH/ 2014/039/SPL Due date: 30th Jan 2015

Terms and Conditions

- 1. Quotations are invited in duplicate for the various items shown below/overleaf/ enclosed list.
- 2. The quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
- 3. The quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
- 4. If the item is under DGS & D Rate Contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the rate contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
- 5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) Should be sent along with the Quotations, wherever applicable. Samples if called for should be submitted free of charges and collected back at the supplier's expenses.
- 6. **Local Firms**: Quotations should be for free delivery to this Institute. If quotations are for ExGo down, delivery charges should be indicated separately.
- 7. **Firms outside Chennai**: Quotations should be for F.O.R Chennai. If F.O.R. Consigner Stationer freight charges by passenger train/lorry transport must be indicated. If Ex-Go down, Packing, forwarding and freight charges must be indicated.
- 8. The rates of Sales/General Taxes and the percentage of such other taxes legally livable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales/General Taxes will be admitted at any stage and on any ground whatsoever. The taxes livable should take into consideration that we are entitled to have concessional sales tax applicable to non -government educational institutions run with no profit motive for which a Concession. Sales tax certificates will be issued at the time of final settlement of the bill.
- 9. Goods should be supplied carriage paid and insured.

- 10. Goods shall not be supplied without an official supply order.
- 11. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is late

Specification

Rack mount computer server

List of Items Required

A. 20 Core Computing Server, Quantity: 2 numbers

- 1. Processors: 2 x Intel Xeon Haswell Processor E5-2660 v3 (10 cores, 25M Cache, 2.60 GHz)
- 2. Memory: 128 GB DDR4 Smart memory RAM support for up to 24 DIMM sockets
- 3. Hard Disk Drives: 2 x 2TB 2.5" SFF SAS hard drives (support for up to 4 HDD bays)
- 4. Operating system: Red Hat Linux
- 5. 1x 4-Port RAID Controller with support for RAID 0, 1, 5 & 6
- 6. Optical Drive: DVD-RW Drive
- 7. Dual-Port Gigabit LAN Controller.
- 8. Dedicated LAN for system management with suitable embedded server management technology.
- 9. Add-in card slots: At least 2PCI Express X16 slots.
- 10. Chassis & Power Supply: Rack-mountable chassis with High-efficiency Redundant Power Supplies.
- 11. Rack mount rail kit
- 12. Three years comprehensive on-site warranty including parts and labour.
- 13. Monitor, Keyboard and mouse are required Each 1 no.

B. Data Storage server- 48 TB (Virtual Storage), Quantity: 2 numbers

- 1. Capacity: 48TB
- 2. Drive description: 24 x 2TB LFF MDL SAS
- 3. Host interface: 1 GbE iSCSI (4) Ports and Optional upgrade to 10GbE iSCSI (2) Ports
- 4. Storage expansion options: Use storage clustering capability and incremental storage nodes into the array to expand storage.
- 5. Management features: Centralized Management Console, Integrated Lights-Out 4 Remote Management, Baseboard Mgmt Controller IPMI 2.0
- 6. Clustering support: Hyper-redundant clustered storage support
- 7. Replication support: Asynchronous Replication with Bandwidth Throttling; Multi-Site/Disaster Recovery with Synchronous Replication
- 8. Should have Thin provisioning support
- 9. Should have Smart clone support
- 10. Should have Application Snapshot support
- 11. Should have Redundant, hot swap power supplies
- 12. Should have redundant fans

- 13. Should have redundant, hot plug hard drives, integrated storage controller with flash backed write cache disk RAID 5, 6, and 10
- 14. Network RAID levels (per volume) 0,5,6,10,10+1, and 10+2 for up to four copies of data allowing data to remain available in the event of a disk, controller, storage node, power, network, or site failure.
- 15. Enhanced Integration for Windows environments
- 16. Compatible operating systems: Red Hat Linux

C. Rack mount solution

1. 42U server rack mount solution with all required accessories

D. SAN Switch

- 1. Should have 24 autosensing channel ports capable of speeds of 4, 2, and 1 Gbps
- 2. Comprehensive security framework
- 3. Built-in storage network management
- 4. Sophisticated diagnostics
- 5. Advanced traffic management capabilities
- 6. Non disruptive software upgrades

General Conditions:

- 1. The bidder must have supplied, installed and integrated at least five similar systems across India, preferably in IIT Madras/other IITs/ R&D labs. Please provide a list of your installations.
- 2. Clearly indicate the taxes and any other duties (approximate, if exact value not known) in your quotation.
- 3. The period of warranty will be for **three years (comprehensive on-site)** from the date of acceptance.

Quotations supplied must have a validity period of at least 60 days.