



INTERNATIONAL
CENTRE *for*
THEORETICAL
SCIENCES

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

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TENDER NOTICE No. 14/JAN/2017

ADDENDUM NO. 1 to TENDER NOTICE No. 14/JAN/2017 FOR SUPPLY, INSTALLATION OF HIGH PERFORMANCE COMPUTING CLUSTER

The following Addendum is issued to our TENDER NOTICE NO. 14/JAN/2017, Ref No. ICTS/TIFR/IT/2016-17/04 for “Tender for Supply & Installation of High Performance Computing Cluster” to include the following changes in the Specifications:-

As in tender:

Master node-cum-storage server: Minimum 256GB (16x16) ECC DDR4-2133Mhz or better RAM in balanced configuration for optimizing the memory bandwidth

Read as:

Master node-cum-storage server: Minimum 256GB (16x16) ECC DDR4-2400Mhz or better RAM in balanced configuration for optimizing the memory bandwidth

As in tender:

Master node-cum-storage server: 2 x 256 Gb (minimum) Enterprise SSD (Hot Swappable)

Read as:

Master node-cum-storage server: 2 x 480 Gb (minimum) Enterprise SSD (Hot Swappable)

As in tender:

Master node-cum-storage server: Storage of 150 TB capacity usable after RAID 5 with minimum 2 hot spare disk or RAID 6 with minimum 1 hot spare (should have a built in option to disable the RAID controller to use with OpenZFS)

Read as:

Master node-cum-storage server: Storage of 150 TB capacity usable after RAID 5 with minimum 2 hot spare disk or RAID 6 with minimum 1 hot spare (should have a built in option to disable the RAID controller to use with OpenZFS). In case of multiple storage boxes, the minimum bandwidth between the storage boxes should be 12 Gb/s. Preferable hard drive size is 6 TB or less.

As in tender:

Compute Node: Minimum 64GB (16x4) ECC DDR4-2133Mhz or 4GB/Core RAM whichever is higher (in balanced configuration for optimizing the memory bandwidth)

Read as:

Compute Node: Minimum 64GB (16x4) ECC DDR4-2400Mhz or 4GB/Core RAM whichever is higher (in balanced configuration for optimizing the memory bandwidth)

As in tender:

Archival Storage: Minimum 64GB (16x4) ECC DDR4-2133Mhz or better RAM in balanced configuration for optimizing the memory bandwidth

Read as:

Archival Storage: Minimum 64GB (16x4) ECC DDR4-2400Mhz or better RAM in balanced configuration for optimizing the memory bandwidth

As in tender:

Archival Storage: 1 x E5 2600 V4 series, minimum 2.1 Ghz, minimum 8 Cores or above (Intel® Xeon® Processor E5-2620 v4 or better)

Read as:

Archival Storage: 1 x E5 2600 V4 series, minimum 2.1 Ghz, minimum 8 Cores or above (Intel® Xeon® Processor E5-2620 v4 or better). The motherboard should have an option for second processor.

As in tender:

Optional: Intel C/C++/Fortran compilers

Read as:

Optional: Intel® Parallel Studio XE Cluster Edition for Linux* - Floating Academic 2sts (ESD) (with a free 2 day workshop on Software tools)

Additions to tender specification:

1. SPARES TO BE SUPPLIED:

- Atleast three hard disks of each type installed
- Atleast two power supply of each type installed
- Atleast six memory modules of each type installed
- Atleast one processor of the type installed

2. SERVICE LEVEL AGREEMENT:

- In the event of a failure of any of the sub-systems or components of the proposed solution, the bidder has to ensure that the defects are rectified before end of the next working day.
- Failure to meet the above requirement will result in extension of the warranty services by 3 days for delay of each day during the warranty period.
- Therefore, the bidder along with the OEMs have to put systems and processes in place to address the above during the period of the contract.

3. Provide BTU and Power rating of the quoted hardware. Provide details of heat dissipation and cooling requirements

Please return the **Addendum No. 1 Dt. 09/02/2017** with your Signature, Date & Stamp. It should be enclosed along with the **Technical bid**.

All other terms and conditions of the Tender Enquiry shall remain unaltered.

Thanking you,

Yours faithfully,

For and on behalf of International Centre for Theoretical Sciences,

Administrative Officer