

**INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
RENIGUNTA ROAD, TIRUPATI- 517 506**

Date: 26.04.2018

**Public Tender No.IITT/Comp/09/2017-18/08 Due date extended up to 21.05.2018 at
15.30 hours**

**Name of supply: Supply and setting up of High Performance computing facility (Cluster)
at IIT Tirupati campus, Renigunta Road, Settipalli Post, Tirupati -517506, Chittoor
District, A.P.**

CORRIGENDUM-II

In place	To read as
Para 2 under Specifications and Compliance statement The quotation has to be supported with original catalogue (not of photocopy)	Para 2 under Specifications and Compliance statement The quotation has to be supported with original catalogue (or digital copy, but not a photocopy in exceptional circumstances)

Changes to eligibility criteria:

SI No.2

In place	To read as
Bidder should have executed 1.Atleast one order of 80% of quoted value 2.Atleast 2 orders each of 50% of quoted value 3.Atleast 3 orders each of 40% of quoted value	Bidder/OEM should have executed 1.Atleast one order of 80% of quoted value 2.Atleast 2 orders each of 50% of quoted value 3.Atleast 3 orders each of 40% of quoted value , Pertaining to the HPC solution

SI No.3

In place	To read as
The bidder should be willing to arrange for a demonstration of equipment offered at free of cost on	Deleted

mutually agreeable place and date prior to opening of price bids to ascertain their conformity with tendered specifications.

S.No.8:

In place	To read as
Bidder must be in existence in the HPC business for at least in the last 10 years. Documentary evidence to this effect must be produced along with technical bid	Bidder must be in existence in the HPC business for at least in the last 5 years. Documentary evidence to this effect must be produced along with technical bid.

S NO.9

In place	To read as
The bidder should ensure that (i)Access to 24 x 7 online support for 5 years from technical assistance center of OEM/bidder for resolution of problems with the help of online tools and technical assistance. (ii) Defective part replacement during warranty period (3 years) within a period of two working days with advance replacement policy. (iii) Onsite spares for mother boards, hard disk, power supply for compute nodes and memory amounting to at least 2% of installed capacity need to be provided.	The bidder should ensure that (i)Access to 24 x 7 online support for 3 years from technical assistance center of OEM/bidder for resolution of problems with the help of online tools and technical assistance. (ii) Defective part replacement during warranty period (3 years) within a period of two working days with advance replacement policy. (iii) Onsite spares for mother boards, hard disk, power supply for compute nodes and memory amounting to at least 2% of installed capacity need to be provided.

SI No.17

In place	To read as
Vendor shall possess ISO 9000 Certification for quality system implementation. Required evidence shall be provided along with offer.	Vendor shall possess ISO 9000 or Equivalent Certification for quality system implementation. Required evidence shall be provided along with offer.

Under instructions to bidder:

(iii) Financial (Price) bid : under this condition all prices should be given in Indian Rupee or USD or Euro etc. The last sentence “ The Indian bidders shall quote firm price fully in Indian currency only” stands deleted.

Note: GST at concessional rate of 5% is admissible to IIT Tirupati as the intended equipment is meant for research purpose.

All other terms and conditions as envisaged in our Tender document remains the same.

**CHANGES TO THE TECHNICAL SPECIFICATIONS FOR THE HPC ARE
DETAILED BELOW**

(Changes are highlighted in red color)

S. No. 1: Master Node

As per existing tender - 2 x 400 Enterprise Class NVMe SSDs (endurance >17DWPD)

Changes - 2 x Enterprise Class 500GB, NVMe 1DWPD SSDs

Tender Says – 18.5” TFT Color Monitor, Keyboard & Optical Mouse

Changes - Please ignore this. No Monitor, Keyboard and Mouse to be considered.

S. No. 2: Compute Node

As per existing tender - 1 x 480GB SATA 6Gbp/s Data Centre Class SSD (Minimum 3 HDD Bays)

Changes - 1 x 480GB SATA 6GBp/s Data Centre Class 1 DWPD SSD (Minimum 3 Hot Swap HDD Bays)

S. No. 3: Accelerator Nodes:

As per existing tender - 2 x Nvidia Tesla P100 16GB Accelerator Card with Support of at least 3 GPGPU cards

Changes - 2 x Nvidia Tesla V100 16GB Accelerator Card with Support of at least 3 GPGPU cards

S. No. 4: Parallel File System

As per existing tender - 100 TiB (usable in RAID 6 configuration or similar) Parallel File System based storage with 3GBps throughput with 1MB block size for the PFS. At least 2 I/O Nodes in fail over configuration to be quoted.

Changes - 100 TiB (usable in RAID 6 configuration or similar) Parallel File System based storage with 3GBps throughput with 1MB block size for the PFS. At least 2 I/O Nodes in fail over configuration to be quoted. The same I/O nodes may be used as both Metadata Servers and Object storage servers.

As per existing tender – The solution must be capable of handling the loss of the following without interruption:

- One HDD for MDT or Two HDDs for MDS

Changes - The solution must be capable of handling the loss of the following without interruption:

- One HDD for MDT and Two HDDs for OST

Rest all remains unchanged in this para in the tender.

S. No. 5: Benchmark

As per existing tender - Benchmark results to be submitted along with bid and performance to be demonstrated by IOR/IOZONE. The hard disk capacity to be maximum 4 TB/drive used for benchmark running and for the solution proposed.

Changes - Benchmarking can be done after HPC installations and the bidder can use hard disk capacity of maximum 4 TB.

S. No. 6: Unified Network Storage System

As per existing tender - Maximum 4 U Rackmountable

Changes - Maximum 6 U Rack-mountable

S. No. 7: Primary Communication Network

As per existing tender - Interconnect Fabric must have at least 48 ports in total or higher

Changes - Interconnect Fabric must have at least 36 ports in total or higher with provision to upgrade up to 64 ports in future.

S. No. 8: Secondary Communication Network

As per existing tender - 52 Ports Layer 2 Managed Gigabit Ethernet Switch

Changes - 48 Ports Layer 2 Managed Gigabit Ethernet Switch

S. No. 9: KVM Switch and Console

As per existing tender - 2 x 16 port KVM Switches with required cables, 1U Rackmountable and 1U Rack Console

Changes - 1 x 17" TFT with built in keyboard & touchpad in a 1U single rail slide away housing.

2 x 16 Port Multi-Platform KVM Switch with required cables

S. No. 10: RACK

As per existing tender - Standard 42U Server Rack with 600MM x 1000MM Depth with Front & Rear Perforated Door Should be supplied with standard accessories and minimum 2 PDUs of 32AMPS each.

Changes - No specific changes. However, the bidder is allowed to quote a standard 42 U server rack with standard accessories and appropriate number of PDUs that will provide the complete solution for the HPC.

S. No. 11: Software & Installation

As per existing tender - OS – Red hat Enterprise Linux with Support

Changes - OS – Red hat Enterprise Linux with Standard Support

As per existing tender - Intel Parallel Studio XE latest cluster version Academic perpetual floating License with 5 years Support

Changes - Intel Parallel Studio XE latest cluster version Academic perpetual 2 users floating License with 3 years Support.

S. No. 12: Licensed Cluster Management Software

As per existing tender - Licensed Cluster Management Software ...

Changes – Cluster Management Software. Cluster Management software should have an ability to switch to a different job scheduler at run time. Vendor has to provide support for Clustering software during the warranty period.

NOTE: Support (Parts+Labor+Onsite Services) for all hardwares and softwares has to be provided for 3 years from the date of HPC installation and acceptance, and also quotation for the 4th and 5th years supports (as optional).