

INDIAN INSTITUTE OF TECHNOLOGY GOA
Goa College of Engineering Campus, Farmagudi, Ponda -403401, Goa

Enquiry No. IITGOA/2019-20/010

Date: 17/06/2019

Corrigendum to the Tender for supply of High – Performance Computing Facility vide Enquiry No. IITGOA/2019-20/010 dtd. 31/05/2019.

For the tender for supply of High – Performance Computing Facility at IIT Goa, the following clauses / paragraphs have been modified:

Ref. In tender	Clause in Tender	Corrigendum
Annexure B	Eligibility Criteria	
Page No:12, Point no:5	<p>The eligibility criteria for participation in bid are mentioned below:</p> <p>The server OEM should have successfully installed minimum one (1) number of HPC Cluster having peak compute power of min 100TF of capacity in India in last 3 years. Documentary evidence (Installation Report) to this effect must be produced</p>	The server OEM should have successfully installed minimum one (1) number of HPC Cluster having peak compute power of min 100TF of capacity in India in last 5 years . Documentary evidence (Installation Report) to this effect must be produced
Page no 13, Point no: 8	<p>Additional criteria/clauses for successful bidding:</p> <p>The bidder should agree to provide the following spares free of cost. Please attach a separate sheet in your technical bid agreeing for the same.</p> <p>(A) 600 GB 10K RPM SAS Drive – One (1) unit (B) 1 x 400GB SATA SSD with endurance of 3 DWPD for 5 years – One (1) unit (C) 2TB or higher capacity 7.2K RPM Enterprise SATA or NL-SAS disks – One (1) unit (D) IEC 14 Type Power Cables – Two (2) units</p>	The requirement for providing spares is removed.

	(E) 192 GB DDR4 RAM with minimum 2666MHz ECC Memory – Two (2) units	
Part III	Conditions of Contract	
Page No 9, Point No.17	Per Node Linpack Rmax performance of min. 70% of the theoretical peak value for the compute nodes	Per Node Linpack Rmax performance of min. 65% of the theoretical peak value for the compute nodes
Page No 9, Point No.17	Benchmark and Acceptance Criteria: Per Node Linpack Rmax performance of min. 65% of the theoretical peak value for GPU compute nodes.	Per Node Linpack Rmax performance of min. 55% of the theoretical peak value for GPU compute nodes.
Annexure C	Specifications of High-Performance Computing Facility	
Page No 14, Point No 1.1.3, Page No 15, Point No 1.2.3, Page No 16, Point No 1.3.3	For All types of servers (Master, Compute and GPU): Minimum 192 GB DDR4 with minimum 2666MHz ECC Memory	Minimum 192 GB/node latest generation (Minimum DDR4 2660MHz) ECC Memory in balanced configuration (Configured with same size of memory modules)
Page No 14, Point No 1.1.2: g, Page No 15, Point No 1.2.2: g, Page No 16, Point No 1.3.2: g	For All types of servers (Master, Compute and GPU): Minimum clock frequency of CPU 2.5 GHz.	Minimum clock frequency of CPU 2.4 GHz.
Page no:15, Point No 1.2.4	CPU only Compute Nodes: Two 1GbE network port with PXE boot capability	One 1GbE network port with PXE boot capability
Page no:16, Point No 1.3.4	GPU Node: GPU 2 x NVIDIA Tesla V100 based on x16 (electrical) PCIe Gen3 (32GB HBM2) and a possibility of adding at least two additional cards (Future Expansion).	2 x NVIDIA Tesla V100 based on x16 (electrical) PCIe Gen3 (32GB HBM2)
Page No 14, Point No 1.1.6, Page No 15, Point No 1.3.5, Page No 16, Point No 1.3.6, Page No 16, Point No 1.5.6	HPC Interconnect NIC: For All types of servers (Master, Compute, GPU and Storage):	Single port 100 Gbps Infiniband EDR/OPA HCA
Page No:15, Point no: 1.2.9	CPU only compute nodes: Power supply 80 Plus Platinum or better certified power supply along	80 Plus Platinum or better certified power supply along with at least N+1 redundancy at chassis/node level with

	with at least N+1 redundancy at chassis/node level with required power cables (IEC 14 type).	required power cables (IEC 14/19 type)."
Page No 16, Point No 1.5.1	Storage: PFS based 200 TiB usable capacity with RAID 6 (8+2) or equivalent with dual parity, with 4 GB/s write throughput performance. It must be configured with 7.2K RPM or better SAS/NL-SAS Disks. Metadata capacity to accommodate 300 million files. Read performance should not be less than write. Meta Data Space should be based on 10K/15K RPM SAS or SSD Disks.	PFS based 200 TiB usable capacity with RAID 6 (8+2) or equivalent with dual parity, with 5 GB/s write throughput performance. It must be configured with 7.2K RPM or better SAS/NL-SAS Disks. Metadata capacity to accommodate 300 million files. Read performance should not be less than write. Meta Data Space should be based on 10K/15K RPM SAS or SSD Disks.
Page No 17, Point no 1.5.10	Storage: Benchmarks Bidder must submit storage benchmark results along with bid and should demonstrate 4 GB/s write throughput after installation.	Bidder must submit storage benchmark results along with bid and should demonstrate 5 GB/s write throughput after installation.
Page no:17, Point No 1.6	Primary Communication Network: 36 port EDR InfiniBand switch with 100% non-blocking	36 port 100Gbps EDR InfiniBand/ OPA switch with 100% non-blocking

The last date for submission of bids is extended to July 10, 2019 till 17:00 Hrs. The technical bid opening date is July 12 at 16:00 Hrs in IIT Goa.

All other terms will remain same.

Sd/-
Assistant Registrar