Phone: 0427-2345766
Fax: 0427-2345124

PERIYAR UNIVERSITY

(Reaccredited with 'A' Grade by the NAAC)

PERIYAR PALKALAI NAGAR
SALEM – 636 011.

RE-TENDER NOTICE

Advt. No. PU/R/RUSA Fund/Equipment Purchase-1/139-2018 Date: 26-04-2018

Sealed tenders will be received by the Registrar, Periyar University, Periyar Palkalai Nagar, Salem – 636 011 up to 2.00 P.M. on **28-05-2018** for the **Purchase of Equipments (Including Server, database, Power utilities, storage etc) for the Establishment of Common Computing Centre in Periyar University** from reputed firms. The intended tenderers should show their credentials and get concurrence of the Registrar before purchase of tender schedules. Tender schedules can be had from the undersigned from **27-04-2018** to **25-05-2018** between 11.00 A.M. and 4.00 P.M. on payment of demand draft drawn in any nationalized bank in favour of **"The Registrar, Periyar University, payable at Salem"** as detailed below. Tender should reach this office on or before 2.00 P.M. on **28-05-2018.**

Tenders to be opened on **28-05-2018** at 3.00 P.M. in our office

The EMD in the form of demand draft should be drawn in any Nationalized bank in favour of the Registrar, Periyar University, payable at Salem.

Sl.No	Description	Qty.	Cost of tender documents (Including GST 12%)	EMD Rs	Time of completion of supply
1.	Server Solution – Master Node	1 No	Rs. 16,800/- (Cost-Rs. 15,000/- + GST 1,800/-)	EMD at 1% of the Instrument Value	3 Months
2.	Server Solution – CPU Compute Node	4 No's			
3.	GPU Server Solution – GPU Compute Node	4 No's			

(P.T.O)

4.	Interconnect: • 24 Port or higher Intel Omnipath/ Mellanox EDR with 5 yrs warranty • 2 x 24 port Gigabit Ethernet Switch to support cluster management & administration with 5 yrs warranty	1 No 2 No's			
5.	Software Professional Service	1 No			
6.	Other Equipments: • 42 U Rack 800Wx 1000 Depth with Redundant PDUs with std warranty as per the OEM and Power/Cooling Calculation to be provided with 5 years warranty • 17" LCD Console & KVM Switch with 5 years warranty	1 No 1 No			

(Specifications are Overleaf)

REGISTRAR

Specification for High Performance Computing Systems

Sl.No	Description	Qty
1.	**Server Solution – Master Node:** • Dual Intel® Xeon® Silver 4110 processor (8C, 2.10 GHz, TLC: 11 MB) • Intel Chipset C624 or better • 128GB RAM (4*32GB DDR4 2666MHz Reg DIMM) with future scalability of 3TB • 6 x 8TB 7.2K RPM HDD Hot-plug (RAID 5) • 2 x 1TB 7.2K RPM HDD Hot plug (RAID 1) for OS. • RAID Controller with min 2 GB Cache and should support RAID 0,1,5,6,10 • Single 100GB Intel Omnipath/ Mellanox EDR Adapter Card with 2M IB cable • 4 x 1 GB Ethernet Port with 2 Nos of 2M/3M CAT6 Ethernet Cables. • Management LAN (RJ45) 1 x dedicated management LAN port for iRMC S5 (10/100/1000 Mbit/s) • Redundant 800W modular Power Supply Module, hot plug, platinum (94% efficiency) • 2U rack mountable server with sliding rail kit 5 yrs Comprehensive Onsite Warranty	1 No
2.	**Server Solution – CPU Compute Node :** • Dual Intel® Xeon® Gold 6126 processor (12C, 2.60 GHz, TLC: 19.25 MB) • Intel Chipset C624 or better • 256 GB RAM (8*32GB DDR4 2666MHz Reg DIMM) with future scalability of 3TB • 2 x 2TB 7.2K RPM HDD hot-plug with Support of RAID 0,1 • 2 x 1 GB Ethernet Port with 2 Nos of 2M/3M CAT6 Ethernet Cables. • Management LAN (RJ45) 1 x dedicated management LAN port for iRMC S5 (10/100/1000 Mbit/s) • Single 100GB/s Intel Omnipath/ Mellanox EDR Adapter Card with 2M IB cable • Redundant 800W modular Power Supply Module, hot plug, platinum (94% efficiency) • 1U rack mountable server with sliding rail kit (Only 1U to be quoted) 5 yrs Comprehensive Onsite Warranty	4 No's
3.	**GPU Server Solution – GPU Compute Node :** • Dual Intel® Xeon® Gold 6126 processor (12C, 2.60 GHz, TLC: 19.25 MB) • Intel Chipset C624 or better • 128GB RAM (4*32GB DDR4 2666MHz Reg DIMM) with future scalability of 3 TB	4 No's

	• 2 x 2TB 7.2K RPM HDD Hot-plug with Support of RAID 0,1 • 1 Nos of NVIDIA Tesla V100 GPU Card or latest • 2 x 1 GB Ethernet Port with 2 Nos of 2M/3M CAT6 Ethernet Cables. • Management LAN (RJ45) 1 x dedicated management LAN port for iRMC S5 (10/100/1000 Mbit/s) • Single 100GB/s Intel Omnipath/ Mellanox EDR Adapter Card with 2M IB cable • Redundant 1200W modular Power Supply Module, hot plug, platinum (94% efficiency) • 2U rack mountable server with sliding rail kit • 5 yrs Comprehensive Onsite Warranty	
4.	**<u>Interconnect:</u>** • 24 Port or higher Intel Omnipath/ Mellanox EDR with 5 yrs warranty • 2 x 24 port Gigabit Ethernet Switch to support cluster management & administration with 5 yrs warranty	1 No 2 No's
5.	**<u>Software Professional Service:</u>** • Latest Optimized Open source Linux OS with support for High Performance Computing • Cluster Tool Kit with GUI Profile Based Management able to modify kernel parameter (Preferably Open Source) • Open source ForTran 77/90/95, Parallel ForTran for main system, ANSI C, C++ with corresponding Parallel language for the parallel computing, Perl, Python, Parallel compilers for MPI & Open MP, symbolic debugging tools with source line display and source language program formatter where appropriate • Open Source Standard mathematical, statistical, and numerical function libraries, Standard scientific functions libraries, Parallel Libraries for MPI & Open MP, MKL, Latest X11 with MOTIF; Open source libraries LAPACK, BLAS, FFTW etc Installation and Commissioning to be done by System Integrator for both Hardware and Software) One time installation and configuration of the cluster with training	1 No
6.	**<u>Other Equipments:</u>** • 42 U Rack 800Wx 1000 Depth with Redundant PDUs with std warranty as per the OEM and Power/Cooling Calculation to be provided with 5 years warranty • 17" LCD Console & KVM Switch with 5 years warranty	1 No 1 No

	Eligibility Criteria - Requirement of OEM, System Integrator/Bidder
S No	**Description**
1	OEM (Manufacture) should have at least 10 HPC installations in India
2	Bidder should be in the business of HPC cluster solutions at least for the last 10 years and bidder must submit minimum five satisfactory report which is running successfully with minimum 1 year. Copies of relevant documents should be enclosed
3	The System Integrator should have implemented at least 10 numbers HPC cluster with Infiniband/ominipath network preferably in government, research, academic institutions. Supporting documents (PO and Installation Certificates) for the same should be included in the technical bid
4	SI/Bidder should submit the authorization letter from the OEM
5	SI/Bidder should have technical expertise in implementing cluster which includes installation, configuration, maintenance and customization as per requirement. Should provide details of technical manpower for HPC and support centre details and should have office in either Chennai & Bangalore
6	The installation should be done by certified and trained HPC engineers and Engineers details to be provided
7	One day training for cluster admin and users should be given
8	Quoted OEM must be listed in the India Super Computer List with minimum 2 reference in the latest release
9	The Bidder should have minimum 10 Crore Turnover for the last 3 yrs
10	OEM and Bidder Support Escalation Matrix must be submitted