भारतीय प्रौद्योगिकी संस्थान कानपुर
INDIAN INSTITUTE OF TECHNOLOGY KANPUR
संगणक केन्द्र
COMPUTER CENTRE

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Sealed quotations are invited for 4 node cluster with MIC coprocessor. The detailed specification of the required solution is given in the attached sheet.

Terms and Conditions:

1. All quotations must reach the undersigned by 5 P.M., March 12, 2013
2. Quotations must be valid till April 30, 2013.
3. Quotations shall be submitted in two parts.
   - Part-I (Technical) should contain all the technical details cum specifications of the offered solutions including completed technical compliance sheets and be provided in a sealed envelope.
   - Part-II (Financial) should contain the prices for each item of the offered solutions along with commercial terms and conditions and be provided in a separate sealed envelope. The prices should not be quoted in the technical bid.
4. Warranty & Support: Three years comprehensive on-site for both Hardware and Software.
5. The vendor (if not OEM) should have valid authorization certificate for this tender enquiry from the OEM company.
6. The OEM should have sales and service support office in India. The certificate to this effect from OEM should be submitted in technical bid.
7. Delivery period will be 8 weeks.
8. Installation period: 4 weeks from the date of supply of equipment.
9. Service Level Agreement (SLA) should be signed at the time of installation of the system for providing at least 99% uptime. A penalty clause will be part of the SLA for committed uptime.
10. All software provided in the solutions should be perpetual. If the software is license based, then it should be provided for entire capacity of the system.
11. The solution should be validated and certified by the OEM.
12. IIT Kanpur is exempted from excise duty.
13. IIT Kanpur is exempted for partial custom duty (CD applicable to IIT Kanpur is 5.15%).

27/2/13
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Specifications of the MIC Cluster:

1. Master Node (Quantity - 1) 2x8 core Intel Xeon E5-2670 processor @ 2.60 GHz with 20 MB L3 Cache, Intel C600 Series chipset, 64 GB 1600 MHz DDR3 ECC RAM, dual gigabit NIC, Management port, Dual 4xFDR Infiniband port, 4x 600GB 10k RPM or higher hot swap SAS Disk, hardware RAID controller with 512 MB Flash backed cache or above, support (RAID 0, 1, 5, 6 and 10), OS: 64-bit Red Hat Linux latest version

2. Compute Node (Quantity - 4) 2x8 core Intel Xeon E5-2670 processor @ 2.60 GHz with 20 MB L3 Cache, Intel C600 Series chipset, 64 GB 1600 MHz DDR3 ECC RAM, dual gigabit NIC, Management port, at least one 4x FDR Infiniband port, 2x Intel Xeon Phi 5110p Coprocessor, PCIe 3.0 16x, 500GB SATA Disk, OS: 64-bit Red Hat Linux latest version

3. Cluster Interconnect: Infiniband, 4xFDR, compatible with OFED and open MPI.

4. Cluster Interconnect Gigabit: The compute nodes and the master node must also be connected through gigabit NIC with managed switches for deployment and management purpose through two different networks.

5. All necessary switches for connectivity must be provided and necessary cabling should be provided. At least two extra cables and two empty ports should be provisioned on the switches to connect to external network. The infininband fiber cable for connecting to external network should be at least 10m in length.

6. Software: Cluster monitoring and management software, Compilers: Intel suit of compilers, MPI, MKL; node level deployment tools etc. All software must be perpetual and licensed. Open domain free software, if any, must be specified.

7. 42U OEM Rack with required accessories and 1U slide out console with 17" TFT monitor, keyboard & touchpad.

8. Adequate provision of redundancy for power supply.

Optional Item:

1. 100GB SATA 2.5" SSD Disk in lieu of 500 GB SATA Disk for all the compute nodes.

27/2/13