September 2, 2013

List of Items Required, Ref. CSEN/2013/005/DSTX/SPLX dt. 02.09.2013; Closing date: Sep. 18, 2013

1. **Rack-Mountable Compute Servers, Quantity: 4 or 6**
   - HP ProLiant Gen8 series, Rack Mountable
   - 2 CPU each with 8 Cores, Intel Xeon E5 family processor at minimum 2.2 Ghz clock speed and minimum TLC of 20 MB
   - 128 GB RAM (with provision to expand to 512 GB); minimum DDR3 at 1333 MHz
   - 1 TB SAS storage / (with provision to expand capacity); Disk space specified is Raw Disk Space.
   - Ethernet 1 Gbps, 4-port Network Adapter
   - Redundant Power Supply
   - Power and Thermal sensors (and possibly, other sensors)
   - Transportation and Installation costs to be included with the quote.
   - In case of 6 server option, three of these servers are to be delivered to IIT Mandi (under equipment loan arrangement with IIT Madras). System installation/service must be provided in Mandi/Chandigarh and Chennai.
   - In case of 4 server option, two of these servers are to be delivered to IIT Mandi (under equipment loan arrangement with IIT Madras). System installation/service must be provided in Mandi/Chandigarh and Chennai.

2. **Cloud Server Software:** Open Source Linux Operating System and **Apache CloudStack** (Open Source Cloud Management Software)

General Conditions

1. The bidder should have proven skills in Linux operating systems and experience in configuring cloud management software systems.

2. Installation and integration of all supplied hardware and software shall be done by the bidder. The vendor shall install and configure all required hardware and software suites, including but not limited to racking and stacking, cluster networking, configuring all nodes, execution and submission of jobs, installation of compilers and applications, configuration of environment variables and license utility configuration.

3. The bidder should provide half-a-day training on usage and administration of the cluster. Charges, if any, should be included in the proposal.

4. The bidder must have supplied, installed and integrated at least 5 similar server installations across

India, preferably in IIT Madras / other IITs and R&D labs. Please provide a list of your installations.

5. Delivery time for the servers, from the date of issue of PO, should be indicated by the vendor.

6. The period of warranty will be for three years comprehensive on-site from the date of acceptance.

7. Total power consumption, electrical requirements and air conditioning requirement of the cluster should be specified by the bidder.

8. The servers must be tested in the factory. A test certificate should be issued by the OEM along with the system.

We may be contacted at **skrishnam@iitm.ac.in** or **krishna.sivalingam@gmail.com** or 97105-80903, if there are any questions.

Thanking You,

Krishna Moorthy Sivalingam
Professor, Dept. of CSE

cc: Prof. Hema Murthy, CSE, IIT Madras
    Prof. Devendra Jalihal, EE, IIT Madras
    Prof. Timothy Gonsalves, Director, IIT Mandi