Technical Specification :

Scalable Storage Server

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item Name</th>
<th>Specification</th>
<th>Quantity</th>
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</thead>
</table>
| 1      | Master Node         | A. Processor (Qty: 1)  
  i. Launch Date : After Q1(Mar-May)-2018  
  ii. Cores : 16  
  iii. HyperThread: Yes  
  iv. ECC Support : Yes  
  v. Min. no. Memory Ch. : 6  
  B. Motherboard  
  i. Compatibility : Based on processor  
  ii. Processor Config : Dual  
  iii. Min. no. Memory Ch. : 6  
  iv. Chassis Form Factor : Rack  
  v. Min. no. of QPI Links : 2  
  vi. Min. no. of USB Ports : 6  
  vii. LAN ports : 4 x 10GbE  
  C. RAM  
  i. 64GB DDR4 Registered ECC (4 x 16GB); support upto 24 dimm slots needed (12 per processor)  
  D. Optical drive Ultra-slim DVD-RW (inbuilt) mandatory (Qty: 1)  
  E. Graphics: Standard onboard  
  F. Redundant hot swap Power Supply modules(Qty: minimum two)  
  G. Standard with 4 PCIe 3.0/4.0 slots, at least 3 PCIe 3.0/4.0 x16 slots; USB 2.0 and 3.0,1 x VGA, 2 x RJ45 LAN ports, 1 x RJ45 Management Port  
  H. Storage  
  i. Minimum 12 hot swappable 3.5” disk bays should be available  
  ii. 12 x 3.5” SAS 12G 4TB 7200 rpm HDD’s should also be provided (usable at least 40 TB)  
  iii. RAID Configuration: RAID 0,1,3,4,5,10  
  I. Rack-mountable with mounting Rails | 1        |
| 2      | Compute Node        | A. Processor (Qty: 1)  
  i. Launch Date : After Q1(Mar-May)-2018 | 1        |
### ii. Cores : 16
### iii. HyperThread: Yes
### iv. ECC Support : Yes
### v. Min. no. Memory Ch. : 6

### B. Motherboard
- i. Compatibility : Based on processor
- ii. Processor Config : Dual
- iii. Min. no. Memory Ch. : 6
- iv. Chassis Form Factor : Rack
- v. Min. no. of QPI Links : 2
- vi. Min. no. of USB Ports : 6
- vii. LAN ports : 4 x 10GbE

### C. RAM
- i. 64GB DDR4 Registered ECC (4 x 16GB); support upto 24 dimm slots needed (12 per processor)

### D. Optical drive Ultra-slim DVD-RW (inbuilt) mandatory (Qty: 1)

### E. Graphics: Standard onboard

### F. Redundant hot-swap Power Supply modules (Qty: minimum two)

### G. Standard with 4 PCIe 3.0/4.0 slots, at least 3 PCIe 3.0/4.0 x16 slots; USB 2.0 and 3.0,1 x VGA, 2 x RJ45 LAN ports, 1 x RJ45 Management Port

### H. Storage
- i. Minimum 12 hot swappable 3.5” disk bays should be available
- ii. 12 x 3.5” SAS 12G 4TB 7200 rpm HDD’s should also be provided (usable at least 40 TB)
- iii. RAID Configuration: RAID 0,1,3,4,5,10

### I. Rack-mountable with mounting Rails

<p>| 3 | Ethernet Switch | a. 12-port 10-Gigabit L2 Managed Switch | 1 |
| 4 | Rack | Should fit the ethernet switch, master and compute nodes and should allow for reasonable future expansion (upto 2 nodes) | 1 |
| 5 | Software | Bidder should install Ubuntu 18.04 LTS Server edition in both master and compute nodes. | |
| 6 | Power cable and connectors | Bidder should supply all power cables and connectors necessary to run the system. | |
| 7 | UPS and Battery | Bidder should supply UPS of appropriate specification with 1 hour battery back-up | 1 |</p>
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<th>Details</th>
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<td>8</td>
<td>Warranty</td>
<td>a. Hardware: Bidder to include 3 years warranty for all hardware components in the quote.</td>
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<td>b. Software: Bidder should provide complete software (Operating System) support for the warranty period.</td>
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<td>9</td>
<td>Other terms</td>
<td>a. Bidder should provide support for installation and troubleshooting of software from authorized Developers under the project.</td>
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<td>b. Bidder should provide at no additional cost, spare of good quality, before taking faulty hardware for repair/replacement.</td>
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<td>c. Bidder should provide 3 year licence for all mandatory software required to run the system.</td>
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