



### **Request for Quote and Specifications of Computational Cluster/Server**

- The GEECI (Gallium Nitride Ecosystem Enabling Centre and Incubator) at SID-Indian Institute of Science is seeking bids from qualified industries for this tool as per the specifications below.
- Companies need to submit two bids, a technical bid and a commercial bid, in **two separate** sealed envelopes. The bids should be submitted no later than 30 days from the date of posting of this tender, as listed on the website date/time stamp, and by 5 pm on the 30<sup>th</sup> day or next weekday in case the 30<sup>th</sup> day falls on a weekend or a national holiday.
- Both technical and commercial bids should be addressed to “The Chief Executive, SID, IISc, Bangalore 560012, GST # 29AAATS5333E1ZJ.”
- All quotations should be CIF Bangalore.
- Cost of last mile transportation, including any insurance, from port of shipment to IISc has to be quoted as an option.
- In case of courier shipments maximum permissible weight would be 70kgs.
- The envelopes should be addressed to “Prof. Srinivasan Raghavan, CeNSE, IISc, Bangalore, 560012” and submitted to the office at CeNSE, IISc in Room No. GF 15 between 9 am and 5 pm.
- All questions regarding this tender should be addressed to Prof. Srinivasan Raghavan at the email address [sraghavan@iisc.ac.in](mailto:sraghavan@iisc.ac.in)
- Post such submission all vendors should send an email to [sraghavan@iisc.ac.in](mailto:sraghavan@iisc.ac.in) with the subject line: “GEECI\_Bidder’s name\_Tool Name” to intimate him of the submission within one day.
- Deviations from the technical specifications requested are allowed. Such deviations must be highlighted and justified. Their acceptance or rejection will be left to the discretion of the technical committee.
- The equipment sought will be placed at the Centre for Nano Science and Engineering (CeNSE), Indian Institute of Science (IISc). IISc is India’s No. 1 institution on higher learning and the Center for Nano Science and Engineering is home to one of the best academic fabs in the world.
- The technical and commercial response, corresponding to the tool being offered, should be in the form of a compliance table with at least 5 columns. Serial number in column 1. Each of the items below, **technical and non-technical**, should be addressed in a separate row of the table in column 2. Compliance to this requirement, in Yes/No, deviation from it and justification should be provided in the neighbouring columns 3-5. Post the opening of a hard copy of the technical bid the committee will request for a soft copy of the files for further processing. Companies should **NOT** mail soft copies of the files unless specifically requested for.
- A compliance table for the terms and conditions mentioned at the end of the RFQ should also be included in all bids.
- Detailed technical specifications of the tool being offered should be included.
- Any additional capabilities or technical details, that you would like to bring to the attention of the purchase committee, can be listed at the end of the technical table.
- If multiple systems can fulfill the requirements, vendors can submit multiple bids.
- Vendors are encouraged to highlight the advantages of their tools over comparable tools from the competitors.
- The commercial bid should be broken up to the maximum extent possible into separate items with a cost against each to enable better comparison of price for various configurations across the bidders. As an option, please provide itemized cost for any *suggested* accessories/add-ons that may enhance the usability, capability, accuracy or reliability of the tool. Vendors are encouraged to quote for as many add-ons as their tool portfolio permits.

**Item:** Factory Integrated Computational Server (2 Nos) and Licence Server (1 No)

**Technical Specifications:**

**I. Each Computational Server Should Consist of:**

1. **Processor:** 2 x Intel® Xeon® 6248R Gold 3.0GHz, Turbo 4.0GHz, Hyper threading, 35.75 MB Cache, 24 Cores, 48 Threads, 205 W, Dual CPU Populated, Total 48Cores, 96Threads.
2. **Chipset:** Intel C624 Chipset,
3. **Memory:** 1024 GB (16 x 64GB) RDIMM DDR4 Memory, 2933 MHz
4. **Expansion Slots:** 2 PCI-e x8 Full Height, 2 PCI-e x16 Full Height, 1 PCI-e x8 Low Profile 1 PCI-e x4 Low Profile Gen 3.0
5. **Storage:** 1 x 960 GB Intel S4510 1 DWPD) SSD SATA 6Gbps M.2 NVME Solid State Drive for O.S Applications & 2 x 10.0 TB 512e 6Gbps 3.5in Hot-plug Hard Drive for DATA (Up to 8, 3.5in/2.5in HDDs/SSDs)
6. **Remote Management module:** AXXRMM4LITE2 Dedicated.
7. **Ethernet:** Intel Network Connection X557-AT2 (2 x 10 GBPS 10Base T RJ45)
8. (Total 2 x 10Gbps 10BaseT Ports RJ45)
9. **Power Supply & Rail Kit:**
10. **Power Supply:** Platinum Dual 1300 Watts + 1300 Watts Redundant Supply.
11. Sliding Rack mount RAIL Kit
12. Rack mountable: 2U
13. **Warranty:** 3 Years onsite including Operating system and application support for 3 years.

**II. License Servers Should Consist of:**

- Rack Mountable: 1U
- Intel Xeon E-2224 3.4GHz, 8M cache, 4 cores and 4 threads, turbo (71W),
- 4 DIMMS with 16GB (2 x 8GB) UDIMM,
- Up to 4, 3.5" Cabled Hard Drives and Software RAID,
- 1 x 1TB 7.2K RPM SATA Entry 3.5in, SW RAID,
- Single, Cabled PS, 50W,
- Enterprise Remote Management Controller Latest,
- 3YR Pro Support Next Business Day Onsite Warranty.
- 3 Years Operating System and Applications Support
- Sliding Rail Kits

All of the above mentioned technical specifications are highly desired. However, lower technical specifications may be considered if the above mentioned specifications are found to be unsuitable in financial terms. The Institute reserves the right to go for lower specifications taking into consideration its technical preferences and financial constraints. Vendors are encouraged to highlight the advantages of their tools over comparable tools from the competitors.

**Terms and conditions:**

1. Shipping: On all systems the cost of shipping up to IISc should be included. IISc will take care of the customs clearance at Bangalore Airport. Please include your payment option. IISc would prefer to retain at least 40% of payment till instruments have been commissioned and successfully demonstrated.
2. The vendor must assure that there are no bugs and glitches with the installation.
3. Maintenance: The cost of an annual maintenance contract and cost of emergency technical support that may involve an engineer being on site should be quoted for in the commercial bid and addressed in the technical bid. The availability of trained engineers in India for servicing the system will be preferred and should be described in the technical bid.
4. Post sales service and Indian Presence: Bidders should provide details of after sales service and support and in particular that available in India. If not India, the nearest geographical location should be specified. Please provide details of the number of trained personnel in India who can service the machine, the number of tools sold in India and the corresponding number in the southern region or in Bangalore.
5. Payment Terms and Conditions: On all systems the payment terms should be specified in the technical and commercial proposal and is subject to negotiation. Please include your payment option. IISc would prefer to retain at least 40% of payment till instruments have been commissioned and successfully demonstrated.
6. References: Bidders should provide details of other locations in India with similar tool installations. Vendor should have installed the same or similar tool at minimum 3 other locations in India.
7. Company financials: Bidder shall have to submit audited accounts of financial year 2017-18, 2018-19 and 2019-20. Audited statement must be signed and stamped by qualified chartered accounted. Income Tax return for assessment year – 2017-18, 2018-19 and 2019-20.
8. Guarantee: As high as possible
9. In case of software issues, vendor should be able to provide required solution within five days.
10. The lead time for the delivery of the equipment should preferably be less than 6 weeks from the date of receipt of our purchase order. The smallest lead time will be appreciated.
11. The validity period of the quotation should be 90 days at least.

