



Indian Institute of Science (IISc) Bangalore - 560012
Department of Electrical Communication Engineering

Notice Inviting Tender (NIT)
under Two-Cover Bid System

for

**Supply and Installation of A100-based GPU
System [Local Tender]**

Enquiry or Tender No: [IISc/P/ECE/TE/MTech-AI/2024/01](#)

Date: [February 20, 2024](#)

The Chair

Department of Electrical Communication Engineering

Indian Institute of Science (IISc)

Bangalore – 560012, India

Email: mtechoffice.ai@iisc.ac.in

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1. Preamble

Established in 1909, Indian Institute of Science (IISc), having its main campus at Bangalore (Karnataka, India), is India's leading institution of advanced education and research in the sciences and in engineering. It is a Deemed-to-be-University under Section 3 of the UGC Act, 1956 under Ministry of Human Resource Development (MHRD), GoI. Govt. of India has declared IISc as an Institution of Eminence (IoE). From its beginnings, IISc has laid equal emphasis on fundamental investigations and the solution of practical problems in such a setting.

Quotations should come only from **Indian Original Equipment Manufacturers (OEMs)** or authorized Indian distributors. The quotations should be on FOR-IISc Bangalore basis in INR only.

The community of AI/ML researchers in IISc has significantly expanded over the past few years. New initiatives including the Kotak AI/ML Center and MTech-AI program have also been contributing to this growth. The AI/ML research by the community needs powerful machine for training large models in reasonably fast time. It is planned to procure a multi-accelerator server, with latest hardware and AI/ML software stack suitable for modern-day AI/ML standards. This server, with large memory in the accelerators, is intended to enable researchers to tackle larger datasets, experiment with advanced algorithms, and achieve faster convergence.

2. Technical Details

2.1 Hardware and Software Configuration

Sl. No.	Technical Specifications	Qty
1	<ul style="list-style-type: none">Processor: 2 X Intel Xeon Scalable 4th Gen (Sapphire Rapids) or newer with at least 32 cores (64 threads) per processor (Total: min 64 cores, 128 threads). The base CPU frequency should be 2.8 GHz or more. The processor should support PCIe 5.0 or higher. The processor should support Trusted Secure Enclaves (for eg. SGX)RAM: 512 GB of DDR5, Min DRAM frequency 3200 MHzStorage controller: 8-port RAID controllerStorage: OS: 2 X NVMe.m2 with each capacity of 1.92 TB or more; Internal storage: ~20 TB U.2 or higher NVMe8 * 80 GB A100 GPUsNetwork: 2 X 1GbE port(s)Management: Dedicated Management PortOther ports: 2 USB 3.0 PortsPower supply: 2200 W (3+1) redundant, 80 plus Platinum or higherChassis: 4U Rank Mountable with Railing KitContainers and Required DL SDKs with Support: Some of the basic, SDK/library/containers we will use in the system: CUDA toolkit, CUDA tuned Neural Network (cuDNN) Primitives; TensorRT Inference Engine; CUDA tuned BLAS (cuBLAS); CUDA tuned Sparse Matrix Operations (cuSPARSE); Multi-GPU; Communications (NCCL)LAN CablesUnmanaged Network switch-gigabytePower cords	1 Unit

	• Server Patch cords	
2	Installation and commissioning charges	
3	Warranty & support (Minimum 3-years onsite comprehensive warranty must be included.) 4th and 5th year warranty to be quoted separately.	

3. Bidder's Eligibility Criteria

1. Should have supplied and installed at least 3 accelerator-based based HPC/AI systems to govt. institution/organization in India during January 1, 2022 - December 31, 2023.
2. The bidder must have a proven record of maintaining and managing similar items.
3. Bidders should include necessary document for establishing points 1 and above with necessary proof in terms POs and customer contact details.
4. Should produce authorization from the OEM, if the solution involves an OEM different from the bidder.
5. The bidder must comply with the provisions of Office Memorandum F/No/6/18/2019-PPD dated 23rd July 2020, issued by Public Procurement Division, Department of Expenditure, Ministry of Finance, GoI.
6. The solution offered must comply with the provisions of Public Procurement (Preference to Make in India) Order No P-45021/2/2017-PP (BE-II) dated 15th June 2017 (PPP MII Order) and further revised vide Order dated 28th May 2018, 29th May 2019, 04th June 2020 and 16th September 2020 issued by Public Procurement Section, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, GoI. The minimum local content, the margin of purchase preference and the procedure for preference to Make in India for this tender are as per the mentioned Public Procurement (Preference to Make in India) Order.

4. Acceptance Criteria

1. The systems should be installed, commissioned and demonstrated for the components and parameters specified in the bid and P.O. by the successful bidder, for the solution to be accepted.
2. It is to be noted that maximum of two weeks will be available (after Installation & Commissioning) to the bidder to conform to this acceptance test criterion set out.
3. Any delay in commissioning or conformance to the acceptance beyond the stipulated time will result in extending the warranty. Each day of delay would result in 3 additional days of warranty.
4. This penalty clause is only applicable for solutions which are considered as technically meeting the requirements, as evaluated by the technical committee. The clause cannot therefore be used as an argument to qualify any solution, which the technical committee considers as not meeting the requirements.

5. Technical Details/BoQ Compliance Sheet (to be submitted with Technical Bid)

Note: DO NOT MENTION THE PRICES IN THIS BOQ COMPLIANCE SHEET. THIS WILL LEAD TO AUTOMATIC DISQUALIFICATION OF THE BIDS.

SNo	Item Description	[Only answer YES/NO in this column. DO NOT MENTION THE PRICE]
1	A100-based GPU system with detailed specifications, including 3-year warranty	
2	Software installation cost, if any	

6. Organization of the Technical Bid

The technical bid should strictly be organized in the following sequence only.

Note: IISc reserves the right to disqualify any bid that does not provide all the required data and not following the organization given below.

1. A cover letter from the bidder. Among other things, the cover letter should certify that all the requirements of the tender are provided, and the offered solutions meet and comply with the technical and other specifications of the tender.
2. The bidder must **not** be blacklisted by any Central / State Govt. Organizations of India as on date of submission of the bids. A certificate or undertaking to this effect must be submitted.
3. Proofs for bidder's eligibility criteria as given in Section 3.
4. A copy of the masked Commercial bid has to be given in the technical offer (unpriced Bill of Material (BoM)).
5. Undertaking as per the format in **Annexure A**.
6. The copy of registration certificate or a declaration in compliance with the provisions stipulated in office memorandum F/No/6/18/2019-PPD dated 23rd July 2020 issued by Public Procurement Division, Dept. of Expenditure, Ministry of Finance, GoI.
7. Certificates from bidder, as per format given in **Annexure B**, declaring the country of OEM, country of manufacture, location of local value addition and percentage of local contents for various items provided in the bid, and compliance with the provisions of Public Procurement (Preference to Make in India) order No. P-45021/2/2017-PP (BE-II) dated 15th June 2017 (PPP MII Order) and further revised vide Order dated 28th May 2018, 29th May 2019, 04th June 2020 and 16th September 2020 issued by Public Procurement Section, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, GoI.
8. Technical details of the items required in the tender.
9. Manufacturer Authorization Forms (MAFs) or letters from the OEMs to the bidder for each of the components.
10. Terms and conditions of the offer.
11. A certificate agreeing to all the terms and conditions mentioned in the tender.
12. Appendix
 - a. Supporting technical materials including brochures.
 - b. Any other information or documents that the bidder/OEMs deem necessary.

7. General Terms and Conditions

1. Local tender purchase preference.
 - a. The Bidder should belong to either Class-1 or Class-2 suppliers distinguished by their "local content" as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter. a) Class-1 supplier: Goods

- and services should have local content of equal to or more than 50%. b) Class-2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.
- b. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.
 - c. The quotations should be on FOR-IISc Bangalore basis in INR only.
 - d. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.
 - e. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to the Class-1 supplier.
 - f. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.
2. Offer must be submitted under TWO-BID system i.e., “Technical Bid” and “Price (Financial) Bid” as hard copies in two separate sealed envelopes. These two bids must be enclosed in a larger envelope superscribed as “Bid Submission for IISc/P/ECE/TE/MTech-AI/ 2024/01” within the stipulated period to the indicated mailing address. In addition, **soft copy of only the technical bid** must be sent by email to mtechoffice.ai@iisc.ac.in within the stipulated time.
 3. The vendors may communicate to the committee through the email ID provided on the first page, which will be the official email for the purpose of this tender. However, the communications from the committee will be made only in pre-bid clarification meeting and through email including corrigendum and short fall requests. While the committee may consider the emails from the vendor, the committee will respond/communicate by email from only the official email ID when absolutely necessary including for example, arranging site visits, arranging possible technical presentations and calling the successful bidder for further discussions. In all other circumstances, no responses or communications will be made by the committee via email or any other means.
 4. Any clarifications required by the committee will be sought in possible technical presentations and/or shortfall requests via email. The shortfall requests will precisely point to the tender clauses that are not met by the technical bid. It is the bidder’s responsibility to address the shortfall by submitting an adequate and satisfactory shortfall response. No clarifications by email or any other means will be sought or given by the committee.
 5. Delayed and/or incomplete tenders are liable to be rejected.
 6. The Technical Bid and the Commercial Bid should be duly signed by the authorized representative of the bidder.
 7. The bidders are requested to go through the Terms and Conditions detailed in this document, before filling out the tender. Agreeing to the terms and conditions of the tender document (by signing all pages of the copy of a tender document) is a mandatory requirement.
 8. A tender, not complying with any of the above conditions is liable to be rejected.
 9. IISc reserves the right to cancel the tender at any time without assigning any reason whatsoever.

8. Technical Bid – Terms and Conditions

1. The technical bid should contain all the information and should have the organization as given in Section 7. Bids without the specific information and organization as in Section 8 will be automatically disqualified.
2. No price information must be mentioned in the technical bid. Bids which include price information in the technical bids will be automatically disqualified.
3. Technical bids will be opened first. IISc may seek clarifications after opening of technical bids.
4. The technical evaluations will be made only based on the technical bids and the shortfall responses submitted by the bidder.

9. Commercial Bid – Terms and Conditions

1. Price bids of only technically qualified vendors will be considered. Commercial bid shall be opened for the technically qualified bidders after the technical evaluation.
2. The hardcopy commercial bid of the successful bidder, after the commercial bid opening stage, should contain among other things, unit prices, payment terms, warranty, installation, commissioning etc. as per requirements of IISc mentioned in the tender document. All such conditions must be in line with the tender. In case of any deviation or conditional offer, the bid may be treated as non-responsive and not be considered for evaluation. The Commercial bid should contain details of the prices for each one of the subsystems of the total offer clearly giving the rate and the quantity. Bundling of the prices is not acceptable.
3. This is a **local tender**. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor. Prices should be quoted only in INR (Indian Rupees) and will be with GST only. The order must be on FOR basis.
4. The component of tax, and any other statutory levies should be shown separately and not included in the total amount, to enable IISc to avail any exemption.
5. Proposals should contain the name and contact details, viz., phone, fax, and email of the designated person to whom all future communication will be addressed. The contact details should also be mentioned on the overall envelope.
6. Prices should be quoted in detail, for all the subsystems given in the Technical Specifications part of the tender. Further, bid and **price validity should be for three months** from the date of opening of the technical bids.
7. IISc will place the purchase order only on the successful bidder as per the decision of IISc. In this regard, decision of IISc will be final and binding.

10. Payment Terms

1. The total project cost will consist of Equipment supply and installation and comprehensive warranty for three years from the acceptance and successful installation as decided by IISc.
2. 100% payment shall be released by IISc against delivery, inspection, successful installation, commissioning, and acceptance of the equipment at IISc Bengaluru in good and functional condition and to the entire satisfaction of the Purchaser (IISc).
3. Payment will be subject to deduction of TDS as per rules / laws and any other

deduction as per PO terms.

4. The total solution as per the agreed bill of materials must be supplied within 18 weeks after receiving a firm PO from IISc. The installation and acceptance must be completed within a week after supply of the equipment.
5. Liquidated Damage: As time is the essence for this procurement, hence the ordered materials are required to be delivered and installed in all respects within the stipulated period in the purchase order failing which penalty for late delivery and installation will be imposed at the rate 1% of the total order value per week or part thereof for the delayed period subject to maximum of 10% of the total order value and this liquidated damage will be deducted during the payment of the invoice / bill of the supplier. Earliest / expected delivery period should be clearly indicated in the technical bid.

11. Important Dates

1. Release of tender: 20th February 2024.
2. Last date for sending queries: 26th February 2024, 5 PM IST. Queries may be sent to mtechoffice.ai@iisc.ac.in.
3. Release of corrigendum to the tender based on the queries, if necessary: 29th February 2024, 5 PM IST.
4. Start date for submission of the bid: 29th February 2024, 10 AM IST.
5. Last date for submission of the bid: 13th March 2024, 5 PM IST.
 - a. Hard copy submission: The bid in the form of an envelope containing the hard copies of both the technical and commercial bids, in two sealed envelopes, should be submitted and reach the below-mentioned mailing address by the same date, 6 PM IST. Note that the hard copy of the technical bid should exactly match with the soft copy submitted.
 - b. Soft copy submission: **Soft copy of only the technical bid** must be sent by email to mtechoffice.ai@iisc.ac.in by the above-mentioned time. **No soft copy of commercial bid should be submitted.** Soft copy submission of commercial bid at any stage before the opening of the hard copy commercial bid will lead to disqualification of the bid.

Mailing address:

Sudha A
C/o KIAC
406, 4th Floor, SERC/CDS Building
Indian Institute of Science
Bengaluru – 560 012

12. Annexure A - Undertaking

Date:

To:

The Chair

Department of Electrical Communication

Engineering

Indian Institute of Science (IISc)

Bangalore - 560012 India

Subject: Undertaking as per GFR - 2017, Rule 170(iii)

Dear Sir,

We, the undersigned, offer to carry out the project including Products/items, components etc. as per tender at IISc, Bangalore, in response to your Tender No **IISc/P/ECE/TE/MTech-AI/2024/01**. We are hereby submitting our proposal for the same, which includes Technical bid and the Financial Bid. As a part of the eligibility requirement stipulated in the said tender document, we hereby submit a declaration as given below:

1. We will not withdraw or amend or modify or impair or derogate our bid partly or fully or any condition of it after tender opening, during the period of tender validity (six months from the date of opening of the technical bid),
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.
3. In case of failure on our part to deliver/provide the item/installation/service as per the order's terms and conditions within the stipulated period, we are aware that we shall be declared as ineligible for the said tender and /or debarred from any future bidding process of IISc or any Government entity for a period of minimum one year.
4. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:

13. Annexure B – Certificate from Bidder related to Make in India Orders

To:
The Chair
Department of Electrical Communication Engineering
Indian Institute of Science (IISc)
Bangalore – 560012 India

We hereby certify that the goods being offered by us vide our proposal, comply with the provisions of Public Procurement (Preference to Make in India) Order No P-45021/2/2017-PP (BE-II), dated 15th June 2017 (PPP MII Order) and further revised vide Order dated 28th May 2018, 29th May 2019, 04th June 2020 and 16th September 2020 issued by Public Procurement Section, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, GoI.

We hereby certify the details pertaining to goods offered by us, as given below:

SNo.	Item Description	Make & Model No.	Country of Origin of OEM	Country and Location of Manufacture of Item	Location in India at which local value addition is made, if any.	Percentage of Local Content
1	A100-based GPU System					

Self-certification on Compliance to Make-in-India Order:

1. We hereby declare that _____ (Bidder Name) is a class 1/2 local supplier in accordance and manner as specified in Order No. P45021/2/2017-PP (BE-II) dated: 04th June 2020 and OM No. P-45021/102/2019-BE-II-Part(1) (E-50310) dated 04.03.2021 issued by DIPP, Ministry of Commerce and Industries, GoI.
2. We also certify that the turnkey solution offered meets the local content requirement for 'Class-I local supplier'/'Class-II local supplier' [tick one and strike out the other], as per the Public Procurement (Preference to Make in India) Order.

We also certify that, we are not from a country sharing land border with India as defined in order No. F/No/6/18/2019-PPD dated 23 July 2020 issued by Public Procurement Division, Dept. of Expenditure, Ministry of Finance, GoI and the goods offered by us comply with the provisions of said order.

For (Name of bidder)

Authorized Signatory
Name & Designation:
Mobile No: