

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase_r.d@iitgoa.ac.in

GSTIN:30AABAI1653D2ZE

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/R&D/2022-23/001

Date: 05/04/2022

IIT Goa invites sealed quotations in two bid forms for the supply of below mentioned item.

Sl. No.	Description of Item	Qty.
1	Compute Cluster (Detailed specifications attached as Annexure-A)	01 Set.

1. Quotation must be valid for at least 90 days.
2. The GSTIN should invariably be mentioned in your offer.
3. Kindly attach a compliance certificate along with the technical quote.
4. Prices: Prices should be quoted in INR – F.O.R., IIT Goa basis only.
5. Payment terms: Within 30 days after the delivery and successful installation of item at IIT Goa.
6. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
7. The Institute is following and abide with the revised Public Procurement (Preference to Make in India), Order 2017 P- 45021/2/2017 – B. E. -II dated 16.09.20 issued by DPIIT, Ministry of Commerce and Industry, Govt. of India & subsequent amendments/instructions of Ministry. Accordingly, preference will be given to the make in India products while evaluating the bids. However, it is sole responsibility of the bidder(s) to specify the product quoted by them is of Make in India along with respective documentary evidence in the technical bid itself.
8. The successful bidder has to submit a Performance Guarantee Bond for 3% of the Purchase Order value and valid till one year plus 60 days OR up-to warranty period whichever is later from the date of issue of Purchase Order. Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of order acknowledgment as a successful bidder.
9. **Delivery and Installation:** Within 4-6 weeks of getting a confirmed order.

10. **Warranty:**(a) On-site comprehensive warranty (parts + labor + support) of minimum three years. The warranty period shall begin from the date of successful installation of the equipment at IIT Goa.
11. Quotations shall be submitted in two parts;
Part – I (Technical) should contain all the technical details and specification of the product. It should contain unpriced bid along with terms and conditions, compliance certificates, proprietary certificates (if applicable), any other certificates/details etc. This envelope should be marked as “Technical Bid”
Part -II (Financial) The financial bid of the above item should be in a sealed envelope marked as “Financial Bid” and should contain financial terms and conditions.
12. IIT Goa reserves the right to accept and/or reject any/all bids without assigning any reason in public interest.
13. For any clarification, you may kindly contact Dr. Mantu Santra (email: mantu@iitgoa.ac.in) and Research & Development office (purchase_r.d@iitgoa.ac.in) till 13.04.2022.
14. All sealed quotations must be super scribed with the tender enquiry number and should reach to the Assistant Registrar (Research & Development), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda, Goa, 403401 by 17.00 Hrs. on or before 27.04.2022.
15. Any bidder proposes to bid for the tendered item which is from a country which shares a land border with India will be eligible to bid only if the bidder is registered with the Competent Authority. The Competent Authority for the purpose of registration shall be Registration Committee constituted by Department for Promotion of Industry and Internal Trade (DPIIT). This is also applicable for bidders bidding for finished goods procured directly/indirectly from the vendors from the countries sharing land border with India.

Eligibility criteria and additional terms and conditions for participation in the bid

1. The bidder should be an Original Equipment Manufacturer (OEM) or its Authorized Dealer/Channel Partner having a Direct Purchase and Support agreement with the OEM. In case the bidder is a Dealer, a valid Letter of Authorization from the OEM should be produced along with technical bid.
2. A Certificate/Undertaking on the letter head of the Company to the effect that the OEM/bidder had not been blacklisted anywhere in India by any organization must be enclosed with technical bid.
3. The bidder must be a legal entity in India registered under appropriate laws. Registration certificate to this effect must be produced along with technical bid.
4. The bidder/OEM must have registered/support office either in Goa, Karnataka, Maharashtra, with well-established Service Centre. Documentary evidence to this effect must be produced along with technical bid.
5. The bidder must be in existence in the HPC (High Performance Computing) business in India or outside India at least for the last five years. Documentary evidence to this effect must be produced along with technical bid.

6. The bidder must clearly mention the complete details of the model (e.g., name, number, brand, etc.), if applicable, in the quotation, without which the quotation will not be considered.

7. The bidder is required to furnish clause by clause compliance of technical specifications bringing out clearly the deviations from the specification, if any. The compliance certificate should be produced in the following format.

Sr. No. of the component given in the technical specifications	Specification of the component as per tender enquiry	Specification of the component offered	Compliance (YES/NO)	In case of non-compliance, deviation to be specified in unambiguous terms

Non-compliance with above shall be treated as incomplete/ambiguous and the bid may be ignored without giving an opportunity to the bidder for further clarification/negotiation etc. Mere copying of our specifications in the quotation shall not make the technical bid eligible for consideration. A bid should be supported with a catalogue, duly signed and stamped, of the quoted model, and the same must be sent along with the technical bid.

8. Bidder must submit an Authorization certificate from OEM for service & support. One OEM can authorize one bidder only and one bidder can represent only one OEM.

9. Bidder should be an ISO certified Company.

10. Bidder should be registered under GST Act with concerned State Sales Tax Authorities. The bidder should furnish, along with the bid document, the relevant GST Registration Document and PAN / TAN copies. Documentary evidence to this effect must be produced along with technical bid.

11. The bidder should have average annual sales turnover of Rs. 3 Crores or more during the last three financial years ending 31st March 2021. Attach firm's last 3 years' audited profit and loss account balance sheet duly audited by a Chartered Accountant (C.A.). Documentary evidence to this effect must be produced along with technical bid.

12. Bidder should provide complete documentation about rack layout, and power, cooling and electrical infrastructure required at IIT Goa along with the technical bid.

13. List of minimum three present clientele (Central Government academic/research institutions, IITs, IISERs, NITs, etc.) to whom identical/similar equipment has been supplied in the preceding three years must be produced with contact addresses and telephone numbers.

14. If any of the equipment supplied by the bidder is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the bidder with 18% interest if the payment for such equipment has already been made. All damaged or unapproved goods shall be returned at suppliers' cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, shall be replaced within 45 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms and conditions, IIT Goa, may consider "Banning/Blacklisting" the supplier.

**Sd/-
Registrar**

Specification for Compute Cluster

Sr. No	Items	Qty
1	Master Node	01
2	Compute Node	04
3	Primary Network Switch with Patch cord	01
4	Secondary Network Switch with Patch cord	01
5	Cluster Management Software	01

Item 1: Master Node

Quantity	01 Nos	
Master Node		
Sr. No.	Specification	Description
1.	Processor	Intel Xeon Silver 4210R Total Number of CPU Socket = 2 Total number of CPU Populated = 1 Number of cores per CPU = 10 Number of Threads per CPU = 20 Processor Base Frequency per CPU =2.4GHz Total L3 Cache per CPU = 13.75MB
2.	Memory	6 x 16GB ECC Reg. DDR4-2400 Mhz At least 8 DIMMs on motherboard.
3.	Drive (OS)	2 x 512GB SATA SSD 2.5" (RAID 1) for HPC stack installation
4.	Drive (Data)	2 x 1TB SATA SSD 2.5" (RAID 5) for Data volume
5.	Drive Bays	Min 8 Hotswap Drive bays (SAS/SATA/SSD)
6.	Expansion Slot	3 PCI-E 4.0 x16 slots
7.	RAID Level support	RAID 0,1,5,10,50 supported
8.	Network interface	Dual 10Gig LAN ports
9.	Ports	2 RJ45 LAN, 1 RJ45 Dedicated IPMI LAN for Server management,1 VGA, 7 USB 3.0 (4 rear, 2 front, 1 Type A)
10.	Graphics	Onboard Graphics via ASPEED AST2500
11.	Operating System	Support latest version of 64-bit CentOS/Ubuntu/Open source Linux
12.	Form Factor	2U Rack Mountable

13.	Power supply	Min 1000W Redundant Power Supply Titanium Level
14.	Warranty	3 Years Comprehensive onsite warranty

Item 2: Compute Node (2U Enclosure consists of 4 compute nodes)

Quantity		1 set for 4 Units
Sr. No.	Specification	Description (Per Server Node)
1.	Processor	Intel Xeon Gold 6226R Total number of CPU Socket = 2 Total number of CPU populated =2 Number of cores per CPU = 16 Number of Threads per CPU = 32 Processor Base Frequency per CPU= 2.90GHz Total L3 Cache per CPU = 22MB
2.	Memory	6 x 16GB ECC Reg. DDR4-2933 Mhz At least 16 DIMMs on motherboard.
3.	Drive	1 x 512GB SATA SSD
4.	Drive Bays	6 Drive bays supporting HDD\SSD per node
5.	Expansion Slot	2 PCI-E 3.0 x16
6.	Network interface	Dual 10Gig LAN ports
7.	Ports	2 RJ45 LAN, 1 RJ45 Server Management Port, 2 x USB 3.0, 1 VGA port
8.	Graphics	Onboard Graphics via ASPEED AST2500
9.	Operating System	Support latest version of 64-bit CentOS/Ubuntu/Open source Linux
10.	Form Factor	2U Rack Mountable Dense form factor (0.5U; 4 Nodes in 2U chassis)
11.	Power supply	Up to 2200W Redundant Power Supplies Titanium Level
12.	Warranty	3 years Comprehensive onsite warranty

Item 3: Primary Switch

8 Port 10Gigabit Switch	Min 8 port 10 Gigabit Unmanaged Ethernet Switch
Cables	Sufficient 10G patch cables (RJ45) to connect all the systems with switch

Item 4: Secondary Switch

24 Port 1Gigabit Switch	24 port 1 Gigabit Unmanaged Ethernet Switch
Cables	Sufficient 1G patch cables (RJ45) to connect all the systems with switch

Item 5: Cluster Management Software

Cluster Management Software	<p>Cluster Management Software with Monitoring Tools</p> <ul style="list-style-type: none">* OS: 64-bit Linux CentOS* Job Scheduler: Job Scheduler with the following features<ul style="list-style-type: none">*Job monitoring and management* Workload cum resource manager with policy-aware, resource-aware, and topology-aware scheduling* Reservation support* Heterogeneous cluster support* Multi-cluster support* Pre-emptive and backfill scheduling support* Application integration support* Live reconfiguration capability* GPU Aware scheduling* Libraries: OpenMPI, MVAPICH, Blas 1,2,3, Lapack, Scalapac, Intel MKL, Intel DAAL* Compilers: GNU Compilers* Cluster manager with provisioning, monitoring, and reporting capabilities* Support Package and Image-based provisioning* Support Disk and diskless cluster deployment both* Intuitive web interface to manage and customize the cluster* Customizing networks and compute node profiles* Customizing compute nodes to the max, up to changing kernel parameter* Able to Push configuration changes and updates to the compute nodes without reinstalling and rebooting
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UNDERTAKING FOR BID SECURITY

(To be issued by the bidder on company's letterhead in lieu of EMD)

To,
The Director,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda – Goa

We, M/s (Name of the firm), with ref. to enquiry no.

..... dtd hereby undertake that:

- 1) We accept all the terms and conditions of the tender document.
- 2) We accept that, we will not modify our bid during the bid validity period, submit performance guarantee within the stipulated period and honor the contract after award of contract.
- 3) In the event of any modification to our bid by us or failure on our part to honor the contract after final award or failure to submit performance guarantee, our firm may be debarred from participation in any tender/contract notified by Indian Institute of Technology, Goa for a period of one year.

Yours faithfully,

(Signature of the bidder with date and seal)

DECLARATION OF COUNTRY OF ORIGIN AND LOCAL CONTENT

(To be given on company letter head - For tender value below Rs.10 crores)

(To be given by Statutory Auditor/Cost Auditor/Cost Accountant/CA for tender value above Rs.10 crores)

Date: _____

To,
The Director,
Indian Institute of Technology Goa,
At GEC Campus, Farmagudi, Ponda ,Goa

Sub: Declaration of country of origin and local content.

We, M/s (Name of the firm), with ref. to enquiry no. are bidding for tendered item (**Strike out which is not applicable**)

1. Which is from a country which shares a land border with India (**Enclosed DPIIT registration certificate**)
2. Which is from a country which does not a land border with India

Country of Origin of Goods being offered: _____

We hereby declare that an item offered has % local content. _____

“Local Content” means the amount of value added in India which shall, be the total value of the item being offered minus the value of the imported content in the item (including all customs duties) as a proportion of the total value, in percent.

We understand that as per Office Memorandum dated 04/03/2021 issued by Ministry of Commerce and Industry, services such as transportation, insurance, installation, commissioning, training and after sales support like AMC/CMC etc. are not considered as local value addition.

“*False declaration will be in breach of Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.”

Yours faithfully,

(Signature of the Bidder, with Official Seal)

PRICE BID FORMAT

(To be printed on letterhead of the bidder)

S.No.	Item description	Qty.	Rate	Currency	Total
A	Compute Cluster (Detailed specifications attached as Annexure-A)				
B	GST _____ % of (A) HSN Code/ SAC Code _____				
Grand Total(A+B)					

Amount in Words _____ only.

#HSN Code: "Harmonized System of Nomenclature Code No." and SAC Code: "Service Accounting Codes Code No."

Signature.....

Name

Place:

Company Name & Address:

Date:

Affix Rubber Stamp:

Note: Price Bid should be submitted in given format only. For additional information items above format may be typed and used.

REASONABILITY OF PRICES

Please quote best minimum prices applicable for a premier Educational and Research Institution. The party must give details of at least two purchase orders identical or similar equipment, supplied to any IITS/Research Institutions/ other organisation as per below Format (to be enclosed in Financial Bid) along with the final price paid and details are mandatory.

Previous Supply Orders

Name of the Firm _____

S.No.	PO No. & Date	Description & Quantity of ordered equipment	Value of Order	Date of completion of delivery as per contract	Remarks indicating reasons for late delivery, if any and justification of price difference of their supply order & those quoted to us	Has the equipment being installed satisfactorily (attach a certificate from the Purchaser/ Consigner)	Contact Person along with Telephone no., Fax No. and e-mail address

Place: _____

Date: _____

Signature and Seal of the Manufacturer / Bidder

(To be printed on letterhead of the bidder)

Bidders Information

1	Name of the Bidder	
2	Address of the Bidder	
3	PAN No. (<i>Enclosed copy</i>)	
4	GST No. (<i>Enclosed copy</i>)	
5	E-mail	
6	Contact Person's Name & Designation	
7	Mobile No	

FORMAT FOR PERFORMANCE GUARANTEE BOND

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT GOA OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT GOA OR ANY SCHEDULED BANK SITUATED AT GOA. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.

To,
The Registrar,
Indian Institute of Technology, Goa
Farmagudi, Ponda,
Goa – 403401

LETTER OF GUARANTEE

WHEREAS Indian Institute of Technology, Goa (Buyer) have invited Tenders vide Tender No.....
Dt. for purchase of

AND

WHEREAS the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment / machinery, etc. in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Registrar, Indian Institute of Technology, Goa**” in the form of Bank Guarantee for Rs (**3% (three percent) of the purchase value**) and valid till **one year or upto warranty period whichever is later** from the date of issue of Performance Guarantee Bond may be submitted within 15 (Fifteen) days from the date of Order Acknowledgment as a successful bidder.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document / purchase order / performance of the equipment / machinery, etc. this Bank shall pay to Indian Institute of Technology, Goa on demand and without protest or demur Rs..... (Rupees.....).

This Bank further agrees that the decision of Indian Institute of Technology, Goa (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the Bank & branch) hereby further agree that the Guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Indian Institute of Technology, Goa (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs.
(Indian Rupees only).
2. This Bank Guarantee shall be valid up to(date) and
3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if IIT Goa serve upon us a written claim or demand on or before (date).
4. This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at (Address of local branch).

Date:

Yours truly,
Signature and seal of the Guarantor:
Name of Bank:

Instruction to Bank: Bank should note that on expiry of Bond Period, the Original Bond will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.