

INDIAN INSTITUTE OF TECHNOLOGY GOA

At Goa Engineering College Campus

Farmagudi, Ponda, Goa 403401

E-mail: purchase@iitgoa.ac.in

GSTIN: 30AABAI1653D1ZF

PAN: AABAI1653D

TAN: BLRI08261B

Enquiry No: IITGOA/2019-20/048

Date: 17/01/2020

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

Sl. No.	Description of Item	Qty
1	Compute Cluster (Detailed Specifications Attached)	01 No.

Terms and conditions:

1. The GSTIN should invariably be mentioned in your offer.
2. Prices:
 - i) The price quoted shall be considered firm and no price escalation will be permitted (except Govt. Statutory Levies).
 - ii) Bidder should quote only one solution against the given technical specifications.
 - iii) Bidder can quote in INR or in Foreign Currency. The bidder can quote partly in INR and partly in foreign currency. The authorized system integrator may bid on behalf of their server OEM abroad. In such case, the bidders must provide the details viz. name & address on whom the Supply Order/ Letter of Credit is to be placed/ established with bank/ account details etc. in their commercial bid. In such case the Performance Bank Guarantee must be provided by the bidder in INR.
 - iv) The prices quoted must be on “all-inclusive till destination” basis. (In case of imports - DDP-port of landing + customs formalities/charges/levies + inland FFI till IIT, Goa / in case of INR – F.O.R. IIT, Goa). If IIT, Goa places import order in foreign currency directly on supplier abroad, the customs duty payable if any after availing exemption under customs notification no. 51/96 (amended 24/2007) will be paid extra (reimbursed) at actual on submission of documentary proofs/BoE etc. The Customs Duty Exemption Certificate will be issued by IIT, Goa. The Customs Duty Exemption Certificate will not be issued in cases where the order is placed in INR and / or on Indian entity.

- v) The bidder shall arrange to clear the consignment after following customs formalities and arrange to deliver the consignment at destination(s). The responsibility, cost and risk of the consignment shall rest with the bidder till receipt of goods is acknowledged by the IIT, Goa. However, such receipt/ acknowledgement shall not be treated as acceptance of goods.
3. The suppliers shall provide the banking details along with their quote on their letterhead duly signed and stamped.
4. The successful bidder has to submit a Performance Guarantee Bond for 5% of the Purchase Order value and valid till one year 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.
5. Quotations shall be submitted in two parts;
- i) **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”. The detailed eligibility criteria and terms and conditions for participation in the bid are provided below.
- ii) **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. The detailed eligibility criteria and terms and conditions for participation in the bid are provided below.
6. For any clarification, you may kindly contact Dr. Ashish Bhateja (E-mail: ashish@iitgoa.ac.in and Stores & Purchase Department (email: purchase@iitgoa.ac.in) till 31/01/2020.
7. All sealed quotations must reach to the Assistant Registrar (Stores & Purchase), IIT Goa, at Goa College of Engineering Campus, Farmagudi, Ponda 403 401, Goa, by 17.00 Hrs on or before 07/02/2020.

Sd/-

Asst. Registrar (S&P)

Page 2 of 7

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 (**5% (five 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.

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 **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 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.

9. The bidder should have average annual sales turnover of Rs. 3 Crores or more during the last three financial years ending 31st March 2019. 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.

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

11. 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.

12. 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.

13. Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.

14. IIT Goa has the right to accept the whole or any part of the tender or portion of the quantity offered or reject it in full without assigning any reason in public interest.

15. **Validity of bids:** Bids shall be valid for **minimum 180 days** from the date of submission. A bid valid for a shorter period shall stand rejected.

16. **Delivery and Transportation:** Place for supply and installation is 'Indian Institute of Technology Goa, At Goa College of Engineering Campus, Farmagudi, Ponda 403401, Goa'.

17. **Delivery and Installation:** Within 4-6 weeks of getting a confirmed order.

18. **Warranty:** (a) On-site comprehensive warranty (parts + labor + support) of **minimum 3 (three) years**. The warranty period shall begin from the date of successful installation of the equipment at IIT Goa.

Technical Specifications for Compute Cluster

1. Master node – 1 (one) unit

Sr. No.	Component	Description
1.1	Processor	2 × Intel Xeon Silver 4210 Processor (2.20 GHz, 13.75M Cache) Total number of cores: 20 Total number of threads: 40
1.2	RAM	At least 128 GB with minimum 32 GB per memory slot; DDR4 with minimum 2400 MHz, ECC, Registered memory; at least 8 DIMMs on motherboard
1.3	Storage	(a) Two HDDs of same storage capacity; minimum 16 TB total (2 × 8 TB); SATA Enterprise 7200 RPM HDD 3.5" (b) Onboard RAID: 0, 1, 10, 5
1.4	Ports	Minimum 3 number of USB 3.0 ports Minimum 2 number of RJ45 LAN ports
1.5	Network interface	Minimum 2 number of Gigabit Ethernet ports onboard
1.6	Operating system	64 bit CentOS open source
1.7	Form factor	2U or lesser, rack mountable, compatible with standard 19 inches rack
1.8	Power supply	Redundant, Hot-swappable, 80 PLUS Platinum or Titanium certified with suitable power cables
1.9	Graphics	Onboard graphics support
1.10	Remote management	Onboard dedicated port, IPMI 2.0

2. Compute nodes – 7 (seven) units

Following specifications are given for each unit.

Sr. No.	Component	Description
2.1	Processor	2 × Intel Xeon Silver 4210 Processor (2.20 GHz, 13.75M Cache) Total number of cores in each compute node: 20 Total number of threads in each compute node: 40
2.2	RAM	At least 128 GB with minimum 32 GB per memory slot; DDR4 with minimum 2400 MHz, ECC, Registered memory; at least 8 DIMMs on motherboard
2.3	Storage	1 × 1 TB, SATA Enterprise 7200 RPM HDD 3.5"
2.4	Ports	Minimum 3 number of USB 3.0 ports Minimum 2 number of RJ45 LAN ports
2.5	Network interface	Minimum 2 number of Gigabit Ethernet ports onboard
2.6	Operating system	64 bit CentOS open source
2.7	Form factor	2U or lesser, rack mountable, compatible with standard 19 inches rack
2.8	Power supply	Redundant, Hot-swappable, 80 PLUS Platinum or Titanium certified with suitable power cables
2.9	Graphics	Onboard graphics support

2.10	Remote management	Onboard dedicated port, IPMI 2.0
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3. Secondary interconnect – 1 (one) unit

Sr. No.	Component	Description
3.1	Gigabit Ethernet Switch	Minimum 24 port, 10/100/1000 Gigabit Ethernet Switch with management feature; Cables of appropriate lengths should be provided.

4. Server rack – 1 (one) unit

Sr. No.	Component	Description
4.1	Server Rack	Minimum size of 32U, standard 19 inches rack with sufficient number of PDUs. Door locked and movable.

5. Cluster Management Software and essential packages

Sr. No.	Description
5.1	Comprehensive Cluster Management Software with job scheduler, job monitoring and queue management capabilities
5.2	Single user academic license for Intel (C/C++/Fortran compilers) for at least 3 years
5.3	OpenMPI, Intel MPI, etc. and GNU Compilers

6. Scope of work:

- (6.1) Racking and stacking of master and compute nodes, with proper cabling of all components.
- (6.2) Installation of the operating system, cluster management software, and required libraries, packages, etc.
- (6.3) Documentation and manuals of all systems must be supplied.