



Institute of Nano Science and Technology

Habitat Centre, Sector 64, Phase X, Mohali -160062, Punjab, India

Ph: +91-172-2210073/75; Fax: +91-172-2211074; E-mail ID: purchase@inst.ac.in

NOTICE INVITING TENDER

INST invites tender from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time for the instrument, as per specifications given in the Annexure attached to the Tender form. All offers should be made in English and should be written in both figures and words. Tender forms can be downloaded from the website (www.inst.ac.in) of the Institute.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. The Director, INST reserves the right to select the item (in single or multiple units) or to reject any quotation wholly or partly without assigning any reason. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

EQUIPMENT DETAILS

S. No.	Ref. No.	Item Description	Qty	Tender Fee (Non-refundable)	EMD
1	INST/12(290)/2017-Pur	High Performance Computing Cluster With Accessories	01 No.	Rs. 500/-	Rs. 3, 75, 000/-

IMPORTANT NOTE, DATES & TIME

Date and Time of Pre-bid Meeting (PBM)	22 nd January 2018 (1100 HRS)
Last Date & Time For Submission	14 th February 2018 (1400 HRS)
Date / Time of Opening of Bids	14 th February 2018 (1500 HRS)
Venue of Bid Opening at INST	INST, Habitat Centre, Phase 10, SAS Nagar, Sector 64, Mohali
Tenders to be submitted at	INST, Habitat Centre, Phase 10, SAS Nagar, Sector 64, Mohali

Interested bidders may purchase the tender document directly from the office of INST by paying Rs.500/- or download the tender documents directly from the website and deposit Rs. 500/- (Five Hundred only) in favour of Director, INST towards tender fees in INST account mentioned at s.no. 8 of the terms of tender. Both the bids i.e. the Technical & Price bids must be submitted on or before 14th February 2018 upto 2.00PM along with EMD.

Pre-Bid Meeting (PBM)

- The objective of PBM is to provide a platform for clarifying issues and clearing doubts, if any, about the specifications and other allied technical/commercial details of the bid document. Bidders are requested to submit their bids only after the PBM so as to take care of the changes made in the bidding document, if any.
- The prospective participants should inform their intention to participate and send written queries at the email: purchase@inst.ac.in positively up to 19th January 2018 to enable us to keep the response ready. Queries after 19th January 2018 upto 4.00PM will not be entertained.
- Change in the technical specifications and terms & conditions if any, for the above item after pre-bid deliberations, will be uploaded on the INST website & CPPP Website. All vendors are requested to quote accordingly.

IMPORTANT NOTE:

- PLEASE STRICTLY ADHERE TO THE DATES / TIMES MENTIONED IN TENDER DOCUMENT



- The **bids** (Technical Bids) will be **opened** in the presence of representatives of tenderers, if any. **If any unscheduled holiday occurs on the date of submission/opening, then next working day shall be the prescribed date of submission/opening. Requests for postponement will not be entertained.** Fax/email bids may not be accepted. The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to any reason. Late/Delayed tenders shall not be considered/entertained.

The Director, INST reserves the right to accept/reject any offer in part or full without assigning any reason.

TERMS AND CONDITIONS

Important Conditions of the tender to be abide by the tenderer

1. **Due date:** The tender has to be submitted before the due date. The offers received after the due date and time will not be considered.
2. **Preparation Bids:** The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid. The Technical bid and the financial bid should be put in separate covers and sealed. Both the sealed covers should be put into a bigger cover along with letter of EMD and to be sealed. The tender number and details should be superscripted on the left side of the outer cover. The Quotations should be valid for 180 days from the date of opening of tender. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, should be addressed to **“The Director, Institute of Nano Science and Technology, Habitat Centre, Sector 64, Phase –X, Mohali, 160062, Punjab, India”** so as to reach on or before the due date.
3. **Delivery of the tender:** The tender shall be sent to the below mentioned addressee either by post or by courier so as to reach our office before the due date specified in our Schedule. The offer/bid can also be dropped in the tender box on or before the due date specified in the schedule. The tender box is kept in Foyer area of INST.
4. **Tender Preparation Expenses:** The tenderer shall solely bear all the costs associated with the preparation and submission of the bid. The Institute shall in no case be responsible or liable for such costs, regardless of the conduct or outcome of the tender process. In no case, such costs shall be reimbursed by the Institute.
5. **Opening of the tender:** The offer/bid will be opened by a committee duly constituted for this purpose. The technical bid will be opened first and it will be examined by a technical committee which will decide the suitability as per our specification and requirement. The financial offer/bid will be opened only for the offer/bid which technically meets all our requirements as per the specification. The bidders if interested may participate on the tender opening Date and Time. The bidder should produce authorization letter from their company to participate in the tender opening. Only one representative will be allowed to participate in the tender opening.
6. **Acceptance/Rejection of bids:** The Committee reserves the right to reject any or all offers without assigning any reason.
7. **Pre-qualification criteria:**
 - (i) Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
 - (ii) An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well.
 - (iii) OEM should be internationally reputed Branded Company.



(iv) 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.

8. **Tender Fee/EMD:** Tender fee/EMD is to be obtained from the bidders except those who are registered with the Central Purchase Organisation, National Small Industries Corporation (NSIC) or the concerned Ministry or Department. The tenderer should submit Tender Fee/EMD amount as per tender ref. no. through NEFT/RTGS in INST Account. Account Details are as follows:
- Name of Beneficiary: Institute of Nano Science and Technology (INST)
 - Account No. **2452201001102**
 - Name of Bank: **Canara Bank, Sector 34, Chandigarh**
 - IFS Code: **CNRB0002452**
 - MICR Code: **160015003**
 - Swift Code: **CNRBINBBFFC**

The details of transaction for Tender Fee/EMD viz. Name of bidder firm, Tender Description, Transaction ID/No. of Transfer, Transaction date, Amount of Transaction, Name of Bank, Address of Bank shall be furnished by the tenderer on their letterhead separately along with their tender.

9. **Refund of EMD:** The EMD will be returned to unsuccessful Tenderer only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful and complete installation of the equipment.

10. **REASONABILITY OF PRICES :**

Please quote best minimum prices applicable for a premier Research Institution, **leaving no scope for any further negotiations on prices. The quoting party should give a certificate to the effect that** the quoted prices are the minimum and they have not quoted the same item on lesser rates than those being offered to INST to any other customer nor they will do so till the validity of offer or execution of the purchase order, whichever is later. We request you to fill the price reasonability certificate format in the enclosed file (Annexure "1")

The party must give details of identical or similar equipment, if any, supplied to any CSIR labs/DBT/DST Institutes during last three years along with the final price paid and Performance certificate from them.

11. **Performance Security:** The supplier shall require to submit the performance security in the form of irrevocable bank guarantee issued by any Indian Nationalized Bank for an amount which is equal to the 10% of Purchase Order value within 15 days after the final installation cum acceptance of the equipment at INST and Performance Security should be valid for a period of 60 days beyond the date of completion of warranty period of the equipment.

12. **Force Majeure:** The Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.



13. **Risk Purchase Clause:** In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.
14. **Packing Instructions:** Each package will be marked on three sides with proper paint/indelible ink, the following:
- Item Nomenclature
 - Order/Contract No.
 - Country of Origin of Goods
 - Supplier's Name and Address
 - Consignee details
 - Packing list reference number
15. **Delivery and Documents:**
Delivery of the goods should be made within a maximum of 12 weeks from the date of placement of purchase order and the opening of LC. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc. and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:
- 4 Copies of the Supplier invoice showing contract number, goods' description, quantity unit price, total amount;
 - Acknowledgment of receipt of goods from the consignee(s) by the transporter;
 - Insurance Certificate if applicable;
 - Manufacturer's/Supplier's warranty certificate;
 - Inspection Certificate issued by the nominated inspection agency, if any, and the Supplier's factory inspection report; and
 - Certificate of Origin.
 - Two copies of the packing list identifying the contents of each package.
 - The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.
16. **Delayed delivery:** If the delivery is not made within the due date for any reason, the institute will have the right to impose penalty 0.5% per week and the maximum deduction is 10% of the contract value / price.
17. **Prices:** The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of taxes & duties shall be clearly indicated. The price should be quoted without custom duty and excise duty, since INST is exempted from payment of Excise Duty and is eligible for concessional rate of custom duty. Necessary certificate will be issued on demand.
In case of import supply the price should be quoted on FOB Basis. Also please indicate CIF charges separately upto New Delhi indicating the mode of shipment. INST will make necessary arrangements for the clearance of imported goods at the Airport/Seaport. Hence the price should not include the above charges.
18. **Notices:** For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.
- Purchaser:** The Director,
Institute of Nano Science and Technology,
Habitat Centre, Sector – 64, Phase X, Mohali – 160064.
 - Supplier:** (To be filled in by the supplier)



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19. **Progress of Supply:** Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:

- i. Quantity offered for inspection and date;
- ii. Quantity accepted/rejected by inspecting agency and date;
- iii. Quantity dispatched/delivered to consignees and date;
- iv. Quantity where incidental services have been satisfactorily completed with date;
- v. Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date;
- vi. Date of completion of entire Contract including incidental services, if any; and
- vii. Date of receipt of entire payments under the Contract (In case of stage-wise inspection, details required may also be specified).

20. **Inspection and Tests:** Inspection and tests prior to shipment of Goods and at final acceptance are as follows:

- After the goods are manufactured and assembled, inspection and testing of the goods shall be carried out at the supplier's plant by the supplier, prior to shipment to check whether the goods are in conformity with the technical specifications attached to the purchase order. Manufacturer's test certificate with data sheet shall be issued to this effect and submitted along with the delivery documents. The purchaser shall be present at the supplier's premises during such inspection and testing if need is felt. The location where the inspection is required to be conducted should be clearly indicated. The supplier shall inform the purchaser about the site preparation, if any, needed for installation of the goods at the purchaser's site at the time of submission of order acceptance.
- The acceptance test will be conducted by the Purchaser, their consultant or other such person nominated by the Purchaser at its option after the equipment is installed at purchaser's site in the presence of supplier's representatives. The acceptance will involve trouble free operation and ascertaining conformity with the ordered specifications and quality. There shall not be any additional charges for carrying out acceptance test. No malfunction, partial or complete failure of any part of the equipment is expected to occur. The Supplier shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of the Purchaser, the successful completion of the test specified.
- In the event of the ordered item failing to pass the acceptance test, a period not exceeding one weeks will be given to rectify the defects and clear the acceptance test, failing which the Purchaser reserve the right to get the equipment replaced by the Supplier at no extra cost to the Purchaser.
- Successful conduct and conclusion of the acceptance test for the installed goods and equipments shall also be the responsibility and at the cost of the Supplier.

21. **Resolution of Disputes:** The dispute resolution mechanism to be applied pursuant shall be as follows:

- i. In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Executive Director, Institute of Nano Science and Technology (INST) Mohali and if he is unable or unwilling to act, to the sole arbitration of some other person appointed by him willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all parties to this order.



- ii. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (a) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.
 - iii. The venue of the arbitration shall be the place from where the order is issued.
22. **Applicable Law:** The place of jurisdiction would be Mohali (Punjab) INDIA.
23. **Right to Use Defective Goods**
If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the Purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the Purchaser's operation.
24. **Supplier Integrity**
The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.
25. **Training**
The Supplier is required to train the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.
26. **Installation & Demonstration**
The supplier is required to done the installation and demonstration of the equipment within one month of the arrival of materials at the INST site of installation, otherwise the penalty clause will be the same as per the supply of materials.
27. **Insurance:** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance shall be valid for a period of not less than 3 months after installation and commissioning. ***In case of orders placed on FOB/FCA basis, the purchaser shall arrange Insurance.***
28. **Incidental services:** The incidental services also include:
 - Furnishing of 01 set of detailed operations & maintenance manual.
 - Arranging the shifting/moving of the item to their location of final installation within INST premises at the cost of Supplier through their Indian representatives.
29. **Warranty:** 1. Warranty period shall be 03 Years from date of installation of Goods at the INST site of installation. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. **The warranty should be comprehensive on site.**

Note: If the OEM warranty is for 12 Months, additional extended warranty of two years should be quoted separately with or without price.

2. The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 02 days. If the supplier having been notified fails to remedy the defects within 02 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.
3. The maintenance charges (AMC) under different schemes after the expiry of the warranty should also be mentioned. The tender must be quoted with one year on-site comprehensive warranty/guarantee which will commence from the date of the satisfactory installation /commissioning of the equipment against the defect of any manufacturing, workmanship and poor quality of the components. After the warranty period is over, Annual Maintenance Contract (AMC)/Comprehensive Maintenance Contract (CMC) up to next two years should be started. The AMC/CMC charges will be mentioned separately in the tender.
30. **Delivery Schedule:** The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
31. **Governing Language**
The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.
32. **Applicable Law**
The Contract shall be interpreted in accordance with the laws of the Union of India and all disputes shall be subject to place of jurisdiction.
33. **Notices**
- Any notice given by one party to the other pursuant to this contract/order shall be sent to the other party in writing or by cable, telex, FAX or e mail and confirmed in writing to the other party's address.
 - A notice shall be effective when delivered or on the notice's effective date, whichever is later.
34. **Taxes and Duties**
Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser. However, VAT in respect of the transaction between the Purchaser and the Supplier shall be payable extra, if so stipulated in the order.
35. **Agency Commission:** Agency commission if any will be paid to the Indian agent in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in Tender even in case of Nil commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent.
36. **Payment:**
- a. Payment will be made through irrevocable Letter of Credit (LC). Letter of Credit (LC) will be established in the favour of foreign Supplier after the submission of performance security. The



letter of credit (LC) will be established on the exchange rates as applicable on the date of establishment.

- i. For Imports, LC will be opened for 100% FOB/CIF value. 80% of the LC amount shall be released on presentation of complete and clear shipping documents and 20% of the LC amount shall be released after the installation and demonstration of the equipment at the INST site of installation in faultless working condition for period of 60 days from the date of the satisfactory installation and subject to the production of unconditional performance bank guarantee as specified in Clause 9 of tender terms and conditions.
 - ii. Indian Agency commission (IAC), if any shall be paid after satisfactory installation & commissioning of the goods at the destination at the exchange rate prevailing on the date of negotiation of LC documents, subject to DGS&D registration for restricted items.
 - iii. All the bank charges within India will be borne by the Institute and outside India will be borne by the Supplier.
- b. For Indigenous supplies, 100% payment shall be made by the Purchaser after delivery, inspection, successful installation, commissioning and acceptance of the equipment at INST in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in Clause 11 of tender terms and conditions. In case of indigenous supply the 100% payment will be made through bank transfer after receipt & installation of the equipment. The following bank details to be submitted along with tender:
- Name of Beneficiary:
 - Account No.
 - Name of Bank:
 - IFS Code:
 - MICR Code:
 - Swift Code:

37. **User list:** Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.

38. **Manuals and Drawings**

- Before the goods and equipments are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications.
- The Manuals shall be in the ruling language (English) in such form and numbers as stated in the contract.
- Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

39. **Application Specialist:** The Tenderer should mention in the *Techno-Commercial bid* the availability and *names* of *Application Specialist* and *Service Engineers* in the nearest regional office.

40. **Terms of Delivery:** The item should be supplied to our destination in case of local supply. In case of import supply, the item should be shipped upto New Delhi Airport. The Installation/Commissioning should be completed as specified.

41. **Site Preparation:** The supplier shall inform to the Institute about the site preparation, if any, needed for the installation of equipment, immediately after the receipt of the purchase order. The supplier must provide complete details regarding space and all the other infrastructural requirements needed for the equipment, which the Institute should arrange before the arrival of the equipment to ensure its timely installation and smooth operation thereafter.

The supplier shall visit the Institute and see the site where the equipment is to be installed and may offer his advice and render assistance to the Institute in the preparation of the site and other pre-installation requirements.

42. **Installation:** The equipment or machinery has to be installed or commissioned by the successful bidder within 30 days from the date of receipt of the item at INST. In case of any mishappening/damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. Supplier will settle his claim with the insurance company as per his convenience. INST will not be liable to any type of losses in any form.

43. **Spare Parts:** The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
- Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
 - In the event of termination of production of the spare parts:
 - Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
 - Following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.

44. **Defective Equipment:** If any of the equipment supplied by the Tenderer is found to be substandard, refurbished, unmerchantable 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 Tenderer with 18% interest if such payments for such equipment have 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.

45. **Termination for Default**

The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or
 - If the Supplier fails to perform any other obligation(s) under the Contract.
 - If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- For the purpose of this Clause:
 - “Corrupt practice”** means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 - “Fraudulent practice”** means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes



collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”

- In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.
46. **Shifting:** After 3-4 years once our new building is ready, the supplier has to shift and reinstall the instrument free of cost.
 47. **Downtime:** During the warranty period not more than 5% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 5% FOB value will be imposed. Downtime will be counted from the date and time of the filing of complaint within the business hours.
 48. **Training of Personnel:** The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the Institute premises, immediately after completing the installation of the equipment for a minimum period of one week at the supplier's cost.
 49. **Disputes and Jurisdiction:** Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within Mohali.
 50. **Compliance certificate:** This certificate must be provided indicating conformity to the technical specifications.
 51. **Acknowledgement:** It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE COMPANY WITH DATE



BID PARTICULARS

1. Name of the Supplier :
2. Address of the Supplier :
3. Availability of demonstration of equipment : Yes / No
4. Tender cost enclosed: : Yes/No if yes
5. Online Tender Fee/EMD submission information enclosed : Yes / No if Yes
Transaction ID/No. of Transfer_____
- Transaction date: _____
- Amount of Transaction_____
- Name of Bank_____
- Address of Bank_____
6. Name and address of the Officer/contact person to whom all references shall be made regarding this tender enquiry
Name:
Address:
Ph:
Fax:
Mobile:
Email:
Web:

Compliance statement for the tender specifications

Tender Ref No.: **INST/12(290)/2017-Pur**

S.No.	Check list of documents/Undertakings	Yes/No	Remarks (give explanation if the answer is No)
1.	Is EMD details attached? (if applicable)		
2.	Is the bidder original equipment manufacturer (OEM)/authorised dealer?		
3.	If authorised dealer, recent dated certificate to this effect from OEM, attached or not?		
4.	Undertaking from OEM regarding technical support & extended warranty period		
5.	Validity of 180 days or not?		
6.	Price Reasonability Certificate enclosed as per format??		
7.	Undertaking from bidder regarding acceptance of tender terms & conditions		
8.	Whether list of reputed users (along with telephone numbers of contact persons) for the past three years specific to the instrument attached?		
9.	Does the instrument comply with all the specifications detailed? Attach a separate sheet showing compliance with the specifications and explanations thereto if the equipment varies from the requested specifications.		
10.	Whether free Installation, Commissioning and Application Training offered?		
11.	Whether comprehensive onsite warranty offered?		
12.	Whether Annual maintenance after expiry of comprehensive onsite warranty quoted separately?		
13.	Whether free of cost shifting of instrument from transit campus to main campus offered?		



Annexure – 1

PRICE REASONABILITY CERTIFICATE (to be submitted in financial bid envelope)

This is to certify that we have offered the maximum possible discount to you in our Quotation No. _____ dated _____ for (Value Rs.) _____.

We would like to certify that the quoted price are the minimum and we have not quoted the same item on lesser rates than those being offered to INST to any other customer nor we will do so till the validity of offer or execution of purchase order, whichever is later.

Seal and Signature of the tenderer



TECHNICAL SPECIFICATIONS OF HIGH PERFORMANCE COMPUTING CLUSTER WITH ACCESSORIES

1. Master/Login/Compilation Node (using Rack Mount 1U/2U or lesser System) Qty: 1	
Technical Specifications	
Processor(s)	2 x Intel® Xeon Skylake processors (12-Core, 2.1GHz or more)
RAM	128GB DDR4-2400 ECC RDIMM (Max 1TB, at least 16 DIMMs)
RAID	SAS RAID controller supports RAID 0, 1, & 10 levels
HDD(s)	2 x 400GB, Enterprise Class NVMe SSDs (endurance >17DWPD) 4 x 600GB, 10KRPM Enterprise SAS hot-plug HDDs at least 10 HDD drive bays (with at least 8 hot swap bays or more)
NIC	2 x Gigabit(10/100/1000Mbps) Ethernet ports on-board
Interconnect	Single 100Gbps or better Interconnect Mellanox IB or OPA port, with cable
Graphics	Graphics using on board graphics controller
Management	On-board IPMI 2.0 with dedicated LAN and KVM over LAN support
Exp Slot(s)	At least 4 PCI-E 3.0 expansion slots or higher/better
Ports	1 Serial, 2 USB, 2 x Network, 1 x Management, 1 x Interconnect, 1 x Video
Chassis	1U/2U or better rack-mountable with sliding rails
P. Supply	(1+1) Redundant, hot-plug power supplies (80PLUS Platinum Certified)
Peripherals	Required accessories to be supplied

2. Compute Node(s) (using 1U/2U or lesser Rack Systems) Qty: 20 nodes	
Technical Specifications of each node are as below	
Processor(s)	2 x Intel® Xeon Skylake processors (12-Core, 2.1GHz or more)
RAM	96GB DDR4-2400 ECC RDIMM (Max 1TB, at least 16 DIMMs)
HDD(s)	1 x 1000GB, 7200 RPM, Enterprise SATA HDD (Min 3 HDD Bays)
NIC	2 x Gigabit(10/100/1000Mbps) Ethernet ports on-board
Interconnect	Single 100Gbps or better Interconnect Mellanox IB or OPA port, with cable
Graphics	Graphics using on board graphics controller
Management	On-board IPMI 2.0 with dedicated LAN and KVM over LAN support with required license for activation
Exp Slot(s)	at least 1 x PCI-Express x16 (low-profile or higher) slot
Ports	2 USB, 2 x Network, 1 x Management, 1 x Interconnect(100Gbps), 1 x Video
Chassis	1U/2U or better rack-mountable with sliding rails
P. Supply	Redundant, hot-plug power supplies (80PLUS Platinum Certified or better) Shared in case of Multi node architecture or individual for standalone nodes

3. Accelerator Nodes (using 1U/2U or lesser Rack Mount System) Qty: 5 Units	
Technical Specifications	
Processor(s)	2 x Intel® Xeon Skylake processors (12-Core, 2.1GHz or more)
Accelerator	1 x Nvidia Tesla P100 Accelerator Card with at least 12GB memory or higher with support for at least 4 GPGPU Cards in total
RAM	96GB DDR4-2400 ECC RDIMM (Max 1TB, at least 16 DIMMs)
RAID	SATA RAID controller with support for RAID 0, 1, & 10
HDD(s)	1 x 2000GB, Enterprise SATA 7.2K Data Centre Grade HDDs
NIC	2 x Gigabit(10/100/1000Mbps) Ethernet ports on-board
Interconnect	Single 100Gbps or better Interconnect Mellanox IB or OPA port, with cable



Graphics	Graphics using on board graphics controller
Management	On-board IPMI 2.0 with dedicated LAN and KVM over LAN support
	with required license for activation
Exp Slot(s)	At least 3 PCI-E 3.0 x16 expansion slots or higher/better
Ports	1 Serial, 2 USB, 2 x Network, 1 x Management, 1 x Interconnect, 1 x Video
Chassis	1U/2U or better rack-mountable with sliding rails
P. Supply	(1+1) Redundant, hot-plug power supplies (80PLUS Platinum Certified or better)

4. Storage based on Parallel File System

Technical Specifications	
<p>Lustre based PFS with following specifications, with no single point of failure</p> <p>Metadata Storage: >2TB (using 900GB SAS 10K RPM SAS HDDs configured as RAID10 + hot-spare)</p> <p>Usable Storage : > 200TB usable with RAID6 (using up to 4TB, 7.2K RPM SAS HDDs Configured as RAID6 volumes with one hot-spare. Each individual volume to be equal to or less than 44TB</p> <p>Throughput : sustained 4GB/s read/write (50:50) performance</p> <p>200TB (usable in RAID6 configuration) Parallel File System based Storage with 4GBps throughput with 1MB block size for the PFS. At least 2 I/O Nodes to be quoted each node with minimum :</p> <ul style="list-style-type: none"> - 2 x Intel Xeon 12 Core processors with 2.1 Ghz and 16.5 MB Cache - Redundant Power Supply with at least 80 Plus Platinum efficiency - 128GB DDR4 2400 Mhz memory or higher - At least 2 no. of PCI-E x16 expansion slots - 2 x 240GB Enterprise SSDs - With Hi Speed Interconnect ports – minimum 100Gbps <p>MDT with at least 2% of the PFS Storage size, based on SAS 10000 RPM or better HDDs. OST must be scalable enough to accommodate at least 20% of usable space asked in tender as additional raw storage space with in the same system without the need of adding an additional system/box or any type of add-on unit.</p>	

5. Benchmark report and Performance demonstration for PFS Throughput

Technical Specifications	
<ul style="list-style-type: none"> - Open-source IOR/IO Zone benchmarks running on compute nodes with 1MB block size. - Storage Performance to be measured from compute node using IOR benchmark for 4GBps throughput - Benchmark result to be submitted along with bid and performance to be demonstrated by IOR/IOZONE. The hard disk capacity to be maximum 4TB/drive used for benchmark running and for the solution proposed. 	

6. Primary Communication Network

Min. 100 Gbps (Hi speed interconnect) interconnect in fully non-blocking configuration. Model/make, number and types of switches, adapters etc. to be mentioned.	
The interconnect must support RDMA at the specified speed. Inter-node latency should be less than 2 microseconds.	
Should be compatible with OpenMPI, GPUDirect. Should provide full quoted performance on open source software (Linux-OFED-OpenMPI).	
Interconnect Fabric must have at least 44 individual ports in total or higher.	

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7. Software & Installation

Components include

OS : Enterprise Linux

Job Schedulers :

o GUI based Job monitoring and management

- o GUI based reporting,
- o Workload cum resource manager with policy-aware, resource-aware and topology-aware scheduling
- o Advance reservation support
- o Support of job submission through CLI, Web-services and APIs
- o Heterogeneous cluster support
- o Multi-cluster support
- o Preemptive and backfill scheduling support
- o Application integration support
- o Live reconfiguration capability
- o SLA/Equivalent
- o GPU Aware scheduling
- o Intuitive web interface to submit and monitor jobs

MPI : OpenMPI, MVAPICH

Libraries : Open Source Libraries for C, C++ & FORTRAN, MPI, MKL, Blas 1,2,3, Lapack, Scalapack etc.

Software repository: A local mirror for software repository appropriate for the OS (for example, 'yum' repository for CentOS) should be setup for easy update of packages later across the nodes.

8. Licensed Cluster Management S/W (Academic License) :The cluster management stack with a GUI based cluster monitoring for all the cluster nodes.

Cluster monitoring and management software with the following features

- o Cluster manager with provisioning, monitoring and reporting capabilities
 - o Support Package and Image based provisioning
 - o Support Disk and diskless cluster deployment
 - o Intuitive web interface to manage and customize the cluster
 - o Customizing networks and compute node profiles through GUI
 - o Customizing compute nodes to max, upto changing kernel parameter
- Able to Push configuration changes and updates to the compute nodes without reinstalling and rebooting

9. Interconnect (for Cluster Management & IPMI Network)

Qty: 1

52-port, Layer-2 Managed, Gigabit Ethernet switch

With required cables. 1U rack-mountable or lesser



10. KVM Switch & Console	Qty: 1 set
1 x 16-port KVM Switch with required cables, 1U rack-mountable 17" or higher 1U Rack Mount Console	
11. 42U Rack	Qty: 2 Units
(using 2 x Industry Standard Racks with all required accessories)	
12. Training, Technical support and Warranty	
Installation & Training (1-day 8-hr for up to a batch of 5 persons) by Certified Professionals 3 year technical support Minimum 3 year warranty	

Pre-Qualification Criteria:

- Server OEM must be listed in latest Top 500.org list consistently in last 3 lists.
- One OEM (Server OEM) can authorize only one SI/Bidder to quote their products
- Bidder must have prior experience in installing HPC Clusters/ High End Servers and Storage across Govt. Education & Research Organisations in India with at least 3 HPC Installations done. Required documentary evidence to be submitted
- As a proof documentary evidence of previously installed clusters should be provided. PO copies to be shared with installation reports of 3 installation.
- Server OEM must have at least 5 prior HPC installations based on their servers in Govt. Education & Research domain in India each of the size at least 30TF , proof to be submitted
- Storage OEM must have at least 5 Prior PFS Installation as part of HPC in India. Documentary evidence must be provided. PO copies to be shared with installation reports.
- On Site support to be provided by the Bidder or the OEM. Declaration to be submitted along with the bid
- Valid and Duly Authorized Manufacturer Authorization Certificate from the respective OEMs in the name of Participating System Integrator/Bidder must be submitted at the time of submission of Bids
- Server OEM must be listed in Top500.Org consistently in last two lists.
- Rate of AMC for minimum three year from expiry of warranty should be submitted.