

**INDIAN INSTITUTE OF TECHNOLOGY RAJASTHAN**  
MBM Engineering College Campus, Ratanada, Jodhpur – 342011.

**TENDER FOR HIGH PERFORMANCE COMPUTING (HPC) SYSTEM**  
Tender Enquiry No. IITJ/TEN/HPC/2010-11/22

**DATED: 15<sup>th</sup> September 2010**

**DUE DATE FOR SUBMISSION OF TENDER VIA POST: 4:00 P.M. ON 22<sup>th</sup> OCTOBER 2010**

- 1. Background:** IIT Rajasthan is one among the new set of IITs announced by the Govt. of India. It is currently operating at its transit campus located at MBM Engineering College near Ratanada in Jodhpur. Institute is planning to purchase a High Performance Computing System to be installed in its Computer Centre. This will facilitate the faculties and students of IIT Rajasthan to carry out high end computation and related research activities. The sealed quotations are invited from the prospective vendors as per the details given in the Annexure - I to Annexure – IV.
  
- 2. Eligibility Criteria of Bidders:**
  - a) Bidder should be OEM/Authorized Partner /service provider of the OEM and a Letter of Authorization from OEM on the same and specific to the tender should be enclosed.
  - b) The firm/company should be ISO 9001 certified (Maintenance & System Integration). Please attach a copy of the certificate.
  - c) Bidder should be financially sound to execute the order. Certificate to this effect should be issued by any Nationalized/Scheduled bank showing its annual turnover of at least 100 Crores in the last three financial years.
  - d) The bidder shall provide the Registration number of the firm along with the LST/ CST/ WCT No. and the PAN Number allotted by the concerned authorities.
  - e) The bidder must have experience of executing similar orders of HPC with more than 500 cores. The bidder must enclose documentary evidence of supplying and integrating minimum of 5 orders of HPC systems of their own or of an OEM with at least 500 cores within the last 3 financial years for any organization.
  - f) The bidder OEM/authorized partner of the OEM should be in the top 500 list of supercomputer in the world (see <http://www.top500.org>).
  - g) 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.
  - h) The company must not be blacklisted anywhere in India or abroad by any organization whatsoever. A certificate or undertaking to this effect must be submitted.
  - i) The bidder should submit copies of income tax return filed for previous three financial years proceeding the current financial year.
  - j) All the submitted certificates must be valid for the entire duration of the project including the warranty period of the HPC system.

An undertaking, stating the compliance of the conditions as in 2 should be attached.

### 3. Submission of Proposals:

- a) The bidder shall go through the entire document and must comply with all the terms and conditions. A Compliance statement in the form of “Complied” or “Not Complied” shall be given against each item and specification of the tender document (Annexure – II). The compliance statements should be supported by authentic documentation. Please note that any deviation from the laid down requirements / specification shall be brought out separately in deviation sheets to be attached with the concerned section of the tender. Failure to comply with this requirement may result in the bid being rejected. Each page of the bid and cuttings / corrections shall be duly signed and stamped by the bidder. Failure to comply with this requirement may result in the bid being rejected.
- b) The proposals shall be submitted in two parts and should be super-scribed as “PART – I: COVER FOR TECHNICAL BIDS” and “PART-II: COVER FOR COMMERCIAL BIDS” (**due date 22.10.2010, up to 4:00 PM**) and the vendor name/address on all the two envelopes. The envelope cover must carry the NIQ reference and the vendor name and address. All the two sealed envelopes shall be submitted in a larger envelope with the NIQ reference and vendor name and address. This envelope should be duly signed by an authorized signatory and should bear the inscription as under:

**“Tender for High Performance Computing (HPC) System”  
“Tender Enquiry No.”: IITJ/TEN/HPC/2010-11/22  
Dated September 15, 2010**

- c) Part-I shall be a Company Profile covering all the documents specified in the “Eligibility Criteria of Bidders” under clause 2 above, as well as a Technical Proposal with full details including description of product so as to enable technical assessment of the proposal and categorical clause wise compliance statement as per Annexure - I to Annexure II.
- d) The Technical bid must be submitted in an organized and structured manner. No brochures/leaflets etc. should be submitted in loose form. The Technical Offer should comprise of the following:
  - i. A letter of authority duly signed by an authorized signatory.
  - ii. Complete Information of Commercial bid with Product Name, Specification, and Manufacturer quoted for.
  - iii. Columns related to commercials must not be filled up.
  - iv. Technical Documentation [Product Brochures, leaflets, manuals etc.]
  - v. Delivery and implementation schedule.
  - vi. Compliance of terms with any deviation clearly indicated in remarks & brought in separate deviation sheets.
  - vii. Warranty details.
- e) Part – II should contain The Commercial Bids for the entire proposal with breakup of the prices. The bidders are requested to quote
  - i. Product Name, Specification, Manufacturer with charges for installation, configuration and support for solution in INR.

- ii. Prices quoted shall be inclusive of all escalation of any description. The rates must be quoted including the following:
  - A) All costs should be given in Figures and Words.
  - B) Prices should be inclusive of taxes and duties.
- f) Bids Acceptance: The Bids must reach the office of the Director, IIT Rajasthan, on or before the due date, i.e., on **22<sup>nd</sup> October, 2010 by 4.00 P.M.** Bids will not be accepted after the due date and time.
- g) Validity of bids: Bids should be valid for a minimum period of 180 days after the due date.

#### **4. Rejection of Bids:**

- a) The Director, IIT Rajasthan reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
- b) The Director, IIT Rajasthan at its sole discretion reserves the right to award/reject the contract in one or more parts to one or more bidders. Incomplete quotations are liable to be rejected.
- c) Canvassing in any form in connection with the tenders is strictly prohibited and the bids submitted by the bidders who resort to canvassing are liable for rejection.
- d) The Director, IIT Rajasthan shall not pay any costs incurred towards preparation and submission of the bid or any other expenditure in this regard.
- e) Unsigned tenders, unattested corrections and over writings by bidders are also liable for rejection.
- f) Conditional bids will be summarily rejected.
- g) The schedule for accepting the tenders shall be strictly followed- late tenders shall not be accepted.

- 5. Evaluation Process:** For the bidders satisfying the Qualifying Criteria and Technical Specifications, the price comparisons shall be made over the total cost of the solution in INR (including all taxes and duties) with three years of on-site warranty that includes shifting of the HPC system from the current MBM campus to the new IIT Rajasthan campus. The bidder with the lowest total price (L1) will normally be selected from the bidders satisfying the Qualifying Criteria & Technical Specifications.

#### **6. Earnest Money Deposit**

The tenderer shall deposit an Earnest Money of Rs. 10, 00, 000 /- (Rupees Ten Lacks Only) and another separate demand draft of Rs. 1000/- towards non refundable tender fee, in favour of "Director, IIT Rajasthan" payable at Jodhpur. The earnest money deposit will be refunded to the tenderers whose offers have not been accepted within 90 days of opening of tenders. Earnest money deposit of the successful bidder will be refunded on receipt of the security deposit after award of the order.

**7. Prices & Payment Terms:**

- a) The bidders are requested to quote on F.O.R. Destination basis by road inclusive of all Packing, Forwarding, Freight charges, Transit Insurance and any other charges as applicable, as per Annexure - II in INR with 3 year Comprehensive Warranty.
- b) IIT Rajasthan is registered with DSIR, Govt. of India and is, therefore, exempted from excise/custom duties as per limits and terms of Govt. Of India. Exemption certificate for the same shall be issued by IIT Rajasthan, as and when required/requested for.
- c) Bidders must quote the comprehensive price in the following format explicitly.
  - i. Base unit Price
  - ii. Excise Duty/ Custom Duty
  - iii. Sales Tax/ VAT
  - iv. Entry Tax
  - v. Octroi
  - vi. Other Levies/ Taxes
  - vii. Total price inclusive of all taxes and duties FOR, IIT Rajasthan, Jodhpur**
- d) Payment will be made after the successful commissioning (delivery, installation, testing and training) of the project.

**8. Clarifications:** In case the bidder requires any clarification regarding the tender documents, they are advised to send their queries through email (Dr. L. Chandra, email: dr\_laltu\_chandra@yahoo.com) by **29<sup>th</sup> of September 2010**. The pre-bid meeting will be dated on **9<sup>th</sup> of October 2010, 10:00 am**. The corrigendum to any changes made to the tender will be released by **16<sup>th</sup> of October 2010**.

**9. System Variations:** The proposed system is subject to change depending on IIT Rajasthan's priority vis-à-vis financial constraints, if any.

**10. Warranty:** 3 years onsite warranty (including the shifting of the HPC system from the current MBM campus to the proposed new IIT campus at Jodhpur).

**11. Service:** The successful bidder OEM/authorized partner of the OEM should provide an on-site service at IIT Jodhpur within 4 working days after the reporting of issues with the HPC system to the bidder.

**12. Delivery period:** within 16 weeks from the date of receiving the purchase order.

**13. Liquidated Damages:** If the supplier fails to deliver any or all of the goods within the period specified in the purchase order, IIT Rajasthan shall without prejudice to its other remedies, deduct as liquidated damage 1% of the price of the delayed goods for every week or part thereof subject to a maximum of 10% of the order value. The amount towards Liquidated Damage would be recovered while making the initial payment itself.

**14. Penalty Clause:** In case of non-supply of goods or inability to execute the work within a stipulated time (16 weeks after the acceptance of purchase order), the supply order shall be placed with the next bidder which has quoted the next lowest

rates at the risk and cost of the defaulting bidder and difference, if any, between the total cost of the materials shall be chargeable to the defaulting bidder. In case the defaulting bidder fails to pay the differential cost, the legal action shall be taken against the defaulting bidder.

**15. Force Majeure:** Any delay due to Force Majeure will not be attributable to the bidder.

**16. Arbitration and Laws:** Except where otherwise provided for in the contract, all questions and disputes relating to interpretation and application of the provisions of the contract shall be settled mutually within thirty (30 only) days (or such longer period as may be mutually agreed upon) from the date that either party notifies in writing that such dispute or disagreement exists, under the Rules of Indian Arbitration and Conciliation Act, 1996. The venue of Arbitration shall be Jodhpur, Rajasthan, India. The arbitration resolution shall be final and binding upon the parties and judgement may be entered thereon, upon the application of either party, by Jodhpur court having jurisdiction. The Indian laws shall govern this contract.

Place:

(Signature & Seal of Bidder)  
Date:

## ANNEXURE - I

### GENERAL TERMS AND CONDITIONS:

1. Bidder OEM/authorized partner of the OEM/service provider of the OEM must satisfy the qualifying criteria as per 'Eligibility criteria of bidders' clause 2.
2. IIT Rajasthan is registered with DSIR, Govt. of India and is, therefore, exempted from excise/custom duties as per limits and terms of Govt. of India. Exemption certificate for the same shall be issued by IIT Rajasthan, as and when required/requested for.
3. **Prices:** Vendor should quote prices in INR for IIT Rajasthan.
4. **Taxes:** The rates quoted for must be for IIT Rajasthan and all taxes should be mentioned clearly. **Total bid value including all taxes and duties must be mentioned clearly. The bids will be compared on this total value.**
5. **Project Completion Period: 16 weeks** from the date of receiving purchase order.
6. **Consignee or Bill to be sent to:** The Director, IIT Rajasthan
7. **Terms of Payment:** As per 'Prices & Payment Terms' clause 7.
8. **Institute's Rights:** Director, IIT Rajasthan reserves the right to accept or reject any or all the bids without assigning any reason thereof.
9. **Last date of bid submission: 22<sup>nd</sup> October 2010, 4.00 pm**
10. **Technical bid opening : 30<sup>th</sup> October 2010, 10:00 am**
11. **Price bid opening: 6<sup>th</sup> of November 2010, 10:00 am**
12. **Venue: IIT Rajasthan, Jodhpur**
13. Bidders/their authorized representatives must reach the venue before the scheduled time, failing which the bidder will not be allowed to participate in the tender.
14. Queries related to this tender can be made through email/phone on or before **29<sup>th</sup> of September 2010**. Queries after this date will not be entertained.

## ANNEXURE – II

### Technical Specifications for the HPC

- 1 ~512 cores with Intel Xeon Series processors (preferably with  $\geq 8$  cores/processor)
- 2 Theoretical Peak Performance – 5.5- 6 TF
- 3 Scalable to higher number of nodes or different series of processors
- 4 LINPACK benchmarks for performance (specify LINPACK based performance) (<http://www.top500.org/project/linpack>)
- 5 Min 80% sustained throughput
- 6 SLALOM benchmarks for scalability
- 7 6 GB QDR memory per core
- 8 80TB file system. SAS/SATA disks with RAID-5/6
  - o 20 TB scratch, mounted on the computing nodes
  - o 20 TB scratch, distributed and connected to the computing nodes
  - o 40 TB home storage with SAN
- 9 Infiniband interconnect from Voltaire (bandwidth 40 GBPS) with 100 % non-blocking architecture (4 X QDR)
- 10 1 GigabitE network connectivity (preferably upgradable up-to 10 GbE)
- 11 40TB backup tape drive
- 12 Read and Write at 1 GB/sec simultaneously RW (scalable with added nodes or processors)
- 13 5 core login terminal (preferably 5 quad core) with 300 GB/terminal storage and 2GB DDR3 memory per terminal – With full VMware based virtualization support (WINDOWS in Linux platform)
- 14 Linux & WINDOWS, 16 user license for Intel Fortran, C, C++ compilers, Intel cluster toolkit
- 15 2 slots for GPGPU cards in the HPC system
- 16 Factory integrated system (HPC system must be certified by the OEM)
- 17 Job Scheduler (preferably PBS Pro).
- 18 Automatic massaging facility in case the HPC system is down.
- 19 Installation of software's (available at IIT Rajasthan) in the HPC system.

## ANNEXURE - III

We (The Bidder) undertake and confirm that:

1. We hereby offer to supply the goods detailed in schedule thereof as you specify in the purchase order at the price quoted and agree to hold this offer open for acceptance for a period of 180 days from the date of opening of bid.
2. Rates quoted are FOR at site (Indian Institute of Technology Rajasthan) located at Jodhpur in Rajasthan.
3. The product quoted has warranty as specified in the Annexure II of this tender document.
4. The Bidder/OEM/authorized partner of the OEM/service partner of the OEM shall provide its service to IIT Rajasthan at Jodhpur within 4 working days after the reporting of issues with the HPC system.
5. The product names for the total solution are mentioned and also enclosed the datasheets for the same.
6. The warranty in respect of the product ordered shall remain valid for three year from the mutually agreed date.
7. Any delay by the supplier in the performance or delivery of items shall render the supplier liable to cancellation of the purchase order for default. The Bidder would ensure installation/commissioning/testing of the HPC system and its functionality within 16 weeks of the release of purchase order.
8. The bidder must ensure the installation of software's within the time frame not exceeding two (2) weeks from the date of availability of software at IIT Rajasthan and site readiness.
9. The bid/quotation is submitted for the complete Solution and strictly as per the tender specifications.
10. During warranty services will be provided directly on site.
11. Every page of the submitted bid has been numbered and signed.

It is hereby confirmed that we have understood the terms and conditions of the tender and have thoroughly examined specifications and are thoroughly aware of the nature of goods required and our offer is to supply goods strictly in accordance with the requirement and terms and conditions of the tender. We agree to abide by the terms and conditions of the tender if the contract is awarded to us.

“Bid Form” as specified in Annexure - IV has been included.

Place:

(Signature and seal of Bidder)

Date:

## ANNEXURE - IV

### BID FORM

To  
The Director,  
IIT Rajasthan.

Dear Sir,

1. Having examined the terms & conditions of the contract and specifications, the receipt of which is hereby duly acknowledged, we, undersigned, offer to supply and deliver the goods, in conformity with the said drawing, conditions of contract and specifications and services as per the terms & conditions of the contract, for the sums shown in the schedules of price attached herewith and made part of this bid.
2. We undertake, if our Bid is accepted, to execute the work within 16 weeks from the date of issue of your purchase order.
3. We agree to abide by this Bid for a period of 180 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
4. Until a formal Purchase Order of Contract is prepared and executed this Bid together with your written acceptance thereof in your notification of award shall constitute a binding contract between us.
5. Bid submitted by us is properly wax sealed and prepared so as to prevent any subsequent alteration and replacement.

We understand that IIT Rajasthan is not bound to accept the lowest or any bid that it may receive.

Dated this \_\_\_\_\_ day of \_\_\_\_\_

Signature of

In capacity of

Duly authorized to sign the bid for and on behalf of \_\_\_\_\_

Witness \_\_\_\_\_

Address \_\_\_\_\_

Signature & Seal