

CENTRAL UNIVERSITY OF RAJASTHAN

(A Central University by an Act of Parliament)

NH-8 Jaipur-Ajmer, Bandarsindri, Kishangarh-305817, Dist. Ajmer



**Tender Notice & Document
For the
Supply & Installation of
High Performance Computing System (HPC) for the
Department of Atmospheric Science**

and

**Modular Optical Tweezer (MOT), Arc Melting Furnace for
the Department of Physics**

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CENTRAL UNIVERSITY OF RAJASTHAN

NH-8 Jaipur-Ajmer, Bandarsindri, Kishangarh-305817, Dist. Ajmer

(1) Schedule of Tender

Tender document for Supply & Installation of High Performance Computing System (HPC) for the Department of Atmospheric Science and Modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics

Sealed tenders are invited from the respective OEM/ authorized dealers/firms etc. for **Supply & Installation of High Performance Computing System (HPC) for the Department of Atmospheric Science and Modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics** as per, "Annexure "A1 to A3" as Technical Bid and "Annexure "B1 to B3".

As Financial Bid with the following Details:-


| S. No. | Particular | Quantity | Amount of E.M.D |
|--------|---|----------|-----------------|
| 1. | High Performance Computing System (HPC) | 01 | 60,000/- |
| 2. | Furnace | 01 | 50,000/- |
| 3. | Optical Tweezer | 01 | 20,000/- |

Cost of Tender Form: **Rs. 1,000/-** (Non-refundable) for High Performance Computing, Furnace and Optical Tweezer.

1. Last Date of submitting Tender Form is **19th July, 2017 up to 02:00 P.M.**
2. Date of opening of Tender (Technical bid) is **19th July, 2017- at 03: 00 P.M.**
3. Type of Tender: **2 Bid System.**
4. **Mode of EMD and Tender fee:** Bidders should send separate D.D. for Tender fee (non-refundable) and EMD (Refundable without any Interest) in favour of Central University of Rajasthan, payable at Kishangarh/ Bandarsindri.

Important Note; Bidder may quote, as per their capacity for any/some/all items & accordingly Earnest Money may be provided.

(2.) Tender Notice for Supply & Installation of High Performance Computing System (HPC) for the Department of Atmospheric Science and Modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics



Central University of Rajasthan
NH-8 Bandarsindri, Kishangarh, Distt-Ajmer-305817
Tel: 01463 - 238755 Website www.curaj.ac.in.

Ref.: CURAJ/S&P/Tender/2017-18/ 1366 Date:29-06-2017

TENDER NOTICE

Sealed quotations are invited from the Manufacturers, Authorized Dealers/ Firms for the supply & installation of High Performance Computing System (HPC) for the Department of Atmospheric Science and modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics at Central University of Rajasthan. Quotations completed in all respects along with technical and price bids should reach the office of the undersigned on or before 19-07-2017 up to 02.00 P.M. Technical Bids will be opened on same day at 3.00 P.M. in the presence of available bidders. For further details, please visit our website www.curaj.ac.in and CPP Portal i.e. <http://eprocure.gov.in>

Registrar

वायुमंडलीय विज्ञान विभाग में हाई परफॉरमैन्स कम्प्यूटिंग सिस्टम(एच0पी0सी0), एवं भौतिक विज्ञान विभाग में मॉड्यूलर ऑप्टिकल ट्वीज़र (एम0ओ0टी0) तथा आर्क मैल्टिंग फर्नेस की खरीद की निविदा सूचना



राजस्थान केन्द्रीय विश्वविद्यालय
राष्ट्रीय राजमार्ग 8, किशनगढ़ जिला अजमेर 305817
दूरभाष: 01463- 238755 वेबसाइट www.curaj.ac.in

सी0यू0आर0ए0जे0/क्र0 एवं भ0/टेण्डर/2017-18/1366 दिनांक : 29.06.2017

निविदा सूचना

विश्वविद्यालय में वायुमंडलीय विज्ञान विभाग में हाई परफॉरमैन्स कम्प्यूटिंग सिस्टम (एच0पी0सी0), एवं भौतिक विज्ञान विभाग में मॉड्यूलर ऑप्टिकल ट्वीज़र (एम0ओ0टी0) तथा आर्क मैल्टिंग फर्नेस की खरीद की आपूर्ति व स्थापना हेतु निर्माताओं, अधिकृत विक्रेताओं/फर्मों से सील बंद लिफाफों में निविदायें आमंत्रित की जाती हैं। इच्छुक आवेदक सील बंद लिफाफे में पूर्ण रूप से भरी हुई निविदा (तकनीकी और वित्तीय) अधोहस्ताक्षरकर्ता के कार्यालय में दिनांक 19.07.2017 को अपराह्न 02.00 बजे तक भेज सकते हैं। प्राप्त निविदायें उसी दिन अपराह्न 3.00 बजे निविदाकर्ताओं की उपस्थिति में खोली जायेंगी। निविदा सूचना एवं विस्तृत जानकारी विश्वविद्यालय वेबसाइट www.curaj.ac.in एवं CPP Portal <http://eprocure.gov.in> पर उपलब्ध है।

कुलसचिव

(3.) Important Notes to the Bidder:

1. Sealed quotations are invited for supply and installation of **High Performance Computing System (HPC) for the Department of Atmospheric Science and Modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics** at Central University of Rajasthan, Bandarsindri, Kishangarh, Ajmer as per list attached/given in “**Annexure A-1 to A-8**”. Bids should be submitted by **19-07-2017 up to 02:00 P.M.** at Central University of Rajasthan Bandarsindri 305817, Kishangarh, Distt. Ajmer. (Raj) 305817. Tender document can be downloaded from the University website at URL Link: <http://www.curaj.ac.in/Advertisement/Tenders> or CPPP Portal <http://eprocure.gov.in>
2. Tenders shall be submitted in 2 parts. Part A (Technical Bid) and Part B (Commercial/ Finance bid) The Envelope of Technical bid as per annexure A-1 to A-8 and Financial bid as per **Annexure ‘B-1 to B-6’** should be kept in separate envelope. Technical Bid part A should contain all technical document along with tender fee & EMD. Both envelope Part A & Part B than be kept in a Big envelope.
3. The quotations will be opened **on 19-07-2017 at 03:00 P.M.** The cover containing quotations must be marked “**Quotation For High Performance Computing System (HPC) for the Department of Atmospheric Science and Modular Optical Tweezer (MOT), Arc Melting Furnace for the Department of Physics DUE on 19-07-2017 up to 02: 00 P.M.**”

The rates quoted should be FOR CURAJ Bandarsindri, KISHANGARH, inclusive of all charges viz. packing, forwarding, Installation charges, local taxes, railway freight, transit insurance etc. and free delivery at University stores. Taxes and duties should be quoted separately, but should be included in gross price.
4. Losses or damages in transit will be to the account of the supplier. The supplier may if he/she so desires get the goods insured and include such charges in the tendered rate.
5. Forfeiture of Earnest Money :

Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraws or amends impairs or derogates from the tender in any respect within the period of validity of the tender.
6. Performance Security equivalent to 5% of the ordered value will have to be furnished by supplier within 10 days of the award of contract. Performance Security may be furnished in the form of an Account payee Demand Draft or Bank Guarantee/FDR from a Scheduled bank in an acceptable form, safeguarding the university’s interest in all respects. Performance Security should be valid up to two months beyond the expiry date of warranty obligation.
7. The undersigned is not bound to accept the lowest tender and may reject any tender or any part thereof without assigning any reason.
8. All the columns of the “Annexure B” attached should be properly filled. The rates and units shall not be overwritten in the price schedule. The rates shall be quoted both in figures and words. The tender should be signed by the authorized signatory of the firm.
9. No payment will be made in advance for any supplies under this tender. The valid documentary proof of Registration of Firm/Authorization, Sales Tax, VAT/Service Tax Registration No. & details of Income Tax registration (PAN) should be submitted along with the Technical bid.
10. The University reserves the right to verify/seek confirmation of all original documentary

evidence submitted by the vendor's in support of the tenders, specifications for eligible criteria. In case any information furnished by vendor is found false/incorrect, the tender will be rejected.

11. Delivery and installation of the items are to be completed within 30 days from the date of confirmed purchase order. If delivery does not happen within 30 days, university reserves the right to cancel the PO & may forfeit EMD as well as performance security.
12. Normally the payment shall be made to agency within 30 days from the date of successful installation of equipment /item & subject to submission of proper invoice along with warranty and installation certificate duly signed by supplier and concerned official of the University. Payment will be released through online bank transfer as such copy of cancelled cheque is required along with invoice.
13. All disputes arising shall be subject to the jurisdiction of appropriate court for Distt. Ajmer of Rajasthan state and shall be governed by the law of India.
14. Compliance of all statutory requirements (PF, ESI, Labour Law etc.) will be the sole responsibility of the agency/ Bidder.
15. **Arbitration Clause:** If the dispute cannot be settled by mutual discussions within the thirty (30) days period, either party may refer the matter to arbitrator(s). The arbitration proceedings shall be held under the provisions of the Arbitration and Conciliation Act, 1996 or any of its subsequent amendments.
16. Last date for submission of tender will be considered the next working day to the declared last date, if due to any reason the last date for receipt of tenders is declared as closed holiday for whatsoever reason.
17. Contact persons for any enquiry be made with purchase section on 01463-238757/01463-238591.
18. The detailed tender terms & conditions are attached.

Registrar
Central University of Rajasthan
NH-8 Jaipur-Ajmer, Bandarsindri
Kishangarh, Dist. Ajmer (Raj).

CENTRAL UNIVERSITY OF RAJASTHAN

(To Be Filled By the Vendor/ Bidder)

1. Name of the quoted equipment(s) : _____
2. Name of the Vendor : _____
3. Full Address of the Vendor : _____
4. Telephone/ Mobile No/email. : _____
5. Fax. No. (If any) : _____
6. Registration No. of Firm : _____
7. PAN : _____
8. VAT/CST Registration No. : _____
9. Details of the D.D.
 - a. For Tender Fee (Nonrefundable) : D.D. No. _____ dated _____
drawn from the bank _____
 - b. for E.M.D Amount (Refundable without interest) : D.D. No. _____ dated _____
drawn from the bank _____

CENTRAL UNIVERSITY OF RAJASTHAN

NH-8 Jaipur-Ajmer, Bandarsindri, Kishangarh-305817, Dist. Ajmer

(4) TERMS AND CONDITIONS OF THE TENDER

1) Price / Taxes:

Prices stated in this tender are firm and shall remain firm until required deliveries have been completed unless otherwise expressly agreed to in writing by both parties. The vendor agrees that any price reduction made with respect to Material covered by this order subsequent to placement will be applied to the order. All prices specified herein include all charges for, but not limited to, inspection, and packaging. Prices set forth shall be inclusive of applicable taxes viz sales, value-added or similar taxes until and unless specified in the schedule. This University is registered with DSIR vide No.TU/V/RG-CDE(1115)/2013 dated 26th October 2013 & is exempted for paying excise & Custom Duty.

2) Acknowledgement And Acceptance of agreement :

This agreement constitutes an offer from the university and is expressly limited to the Terms and Conditions contained herein. The Terms and Conditions of the agreement are those that apply to the purchase of materials, items, products, components or services (hereinafter referred to as "Material"). All exhibits, attachments, technical specifications, drawings, notes, instructions, or information referred in the agreement are incorporated herein by reference.

3) The Vendor as an Independent Contractor :

The Vendor shall perform the obligations of this order as an independent contractor and under no circumstances shall it be considered an agent or employee of the university. The terms and conditions of this order shall not, in any way, be construed as to create a partnership or any other kind of joint undertaking or venture between the parties hereto. The Vendor expressly waives any and all rights which may or may not exist to claim any relief under the university's comprehensive insurance policy, worker's compensation or unemployment benefits.

4) Delivery :

The items should be delivered & installed at Central University of Rajasthan within a time period of 30 days from the date of purchase order. If any material is not delivered by the date specified therein, the University reserves the right, without liability, to cancel the order for undelivered material not yet supplied and to purchase the same from another vendor and to charge the defaulting Vendor for any loss incurred in this transaction. Any provisions thereof for delivery by instalment shall not be construed as obligatory unless agreed upon by both the parties. The University shall have the right to refuse deliveries made more than one week in advance of any delivery schedule appearing in the order unless arrangements for such early delivery have been confirmed with the receiving party.

If the vendor is unable to complete performance at the time specified for delivery, by reason of strikes, labour disputes, riot, war fire or other causes beyond the Vendor's reasonable control, the university at its option, may elect to take delivery of material and to pay such

proportion of the contract price as deemed reasonable by the university.

5) Reproduction of Documentation :

The University shall have the right at no additional charge to use or incorporate all or

portions of material found in the Vendor's literature and/or reproduce the Vendor's applicable literature such as operating and maintenance manuals, technical publications, prints, drawings, training manuals and other similar supporting documentation and sales literature. The Vendor agrees to advise the University of any Updated Information relative to the foregoing literature and documentation with timely written notice.

6) Rescheduling :

The University may without liability at least seven days prior to the scheduled delivery date appearing on the order defer delivery on any or every item under said order by giving oral notice to the Vendor (confirmed in writing within seven working days) of any necessary rescheduling.

7) Supply, Packaging and Labelling :

- All Material ordered hereunder must be packed and packaged to ensure its safe delivery in accordance with good commercial practice and where incorporated, the University's packaging specification.
- The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit, including the final destination.
- The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in the contract and in any subsequent instructions ordered by the Purchaser.
- It is the sole responsibility of the vendor to provide/replace the item/good if it is lost or broken during the shipping or transportation due to whatever may be the reason.
- Vendor is responsible to ensure, by contacting the University, that the shipping has been properly done i.e., all the items/goods have properly reached the University.

8) Changes / Amendments :

The University shall have the right at any time, by written notice, in the form of an amendment order, to make any changes it deems necessary, including, but not limited to, changes in specifications, design, delivery, testing methods, packing or destination, If any. Such required changes cause an increase or decrease in the cost of or the time required for performance, an equitable adjustment shall be made in the contract price or delivery schedule, or both. Any claim by the Vendor for adjustment under this clause shall be deemed waived unless asserted in writing within ten (10) days from receipt by the Vendor of notice of change (amendment order). Price increase, extension of time for delivery and change in quantity shall not be binding on the University unless sufficiently justified by vendor and accepted by the university in a form of amendment/ Change Order issued and signed by the University.

9) Inspection And Acceptance :

Material procured from vendor shall be inspected and tested by the University or its designee at vendors cost. If deemed necessary by the University, the Vendor shall provide without charge, all reasonable facilities and assistance for such inspection and test. Any inspection records relating to Material covered by this agreement shall be made available to the University during the performance of the order.

If any Material covered by this agreement is defective or otherwise not conforming to the requirements of this agreement, the University may, by written notice to the Vendor:

- (a) rescind the purchase/supply order as to such non-conforming Material;
- (b) accept such material at an equitable reduction in price;
- (c) reject such non-conforming material and require the delivery of suitable replacements
- (d) If the vendor fails to deliver suitable replacements promptly, the university, with notice of seven business days, may replace or correct such material and charge the vendor the additional cost occasioned thereby, or terminate this order for default.

No inspection (including source inspection) test, approval (including design approval) or acceptance of material shall relieve the Vendor from responsibility for defects or other failures to meet the requirements of this order. Rights granted to the University in this article entitled INSPECTION is in addition to any other rights or remedies provided elsewhere in this order or in Law.

10) Invoicing / Payments / Set-Offs :

After each completion of supply/purchase order, the Vendor shall send duplicate invoices including item number to the University's concern Department.

Payment of invoice shall not constitute acceptance of Material ordered and shall be subject to appropriate adjustment, if the Vendor failed to meet the requirements of this agreement. The University shall have right at any time to set-off any amounts due to the Vendor, (or any of its associated or affiliated companies) against any amounts owed by the university with respect to this agreement.

11) Terms of Payment and Conditions:

100% of the payment shall be released upon successful commissioning of the equipment/ item and on production of the documents showing takeover and acceptance of the equipment/item by the consignee, after ensuring that already furnished Performance Security is valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder / supplier including comprehensive maintenance warranty obligations.

Price Fall Clause:-

If at any time prior to delivery of the equipments/items the bidder/supplier reduces the sale price of such equipments/items as covered under this tender enquiry, to any organization (including Central/State/Deemed university) at price lower than the price quoted under this contract, he shall forthwith reduce the price payable under this tender for the equipments/items being supplied after the date of coming into force of such reduction, the price of equipments/items shall stand corresponding reduced.

12) Selection of the Bidder:

For the purpose of selection of the bidder, a two-stage bidding process will be followed. The response to the tender should be submitted in two parts viz. Technical Bid & Commercial Bid & must be submitted in separate sealed envelopes.

(a) Technical Bid:

Technical bid should contain information regarding the business turnover, experience and other details of the firm to judge the suitability of the bidder. Bidder must be proving the following documents:

- a) Detailed firm & company details, copy of registrations must be enclosed.
- b) Signed & Stamped compliance sheet of the technical specification as per **Annexure A1 to A3** of the offered equipment/item with technical printed literature must be enclosed with the technical bid. Sl. No. of technical brochures should be mentioned against each technical specification to ensure the technical compliance.
- c) Authorization letter from manufacturer in case of dealer/s for the said equipment in bidding.
- d) Clientele list Performance Certificates from clients
- e) Self-attested photocopy of annual turnover, IT clearance Certificate, Audited Balance Sheet, etc.
- f) The bidder/OEM self-declaration stating that he/she is not banned/debarred or black listed by any Central/State Govt. of India/PSU/Organizations/Institutes in India or abroad in prescribed format
- g) DD/ for EMD amount
- h) Tender fee
- i) The form of the “Terms and Conditions” should be duly filled and signed by authorized person.

It is only when the information about the company in technical bid alongwith Authorization letter from manufacturers (in case of distributor/dealer/retailers), DD for tender fee & EMD. Registration document of the firm etc. are found satisfactory; the commercial part will be opened.

(b) Price Bid:

- a) Commercial bid should contain price of the material required to be supplied as per Price Annexure (B1 to B3) as supplied by the University along with the Tender form, duly filled and signed by the authorized person.
- b) All costs should be given in figures and words. All the Govt. levies like sales tax, octroi, CD, and educational cess, service tax etc., if any, should be clearly and separately mentioned for each item or component. However, all taxes will be paid at actual rates applicable at the time of delivery.
- c) The rates quoted should be applicable to educational institutions and any cost advantage received in lieu thereof should be passed on to the University.
- d) Prices shall not be subject to escalation of any nature
- e) Prices should be FOR – Central University of Rajasthan and including all levies & installation charges. Bidder should note that this University is registered with DSIR vide no. TU/V/RG-CDE(1115)/2013 dated 26th October 2013 & is exempted for paying excise & Custom Duty.

While the above procedures lay down the overall guidelines, Central University of Rajasthan reserves the right to select the vendor based on other parameters at its discretion.

13) Delivery and Opening of Tender :

All tender documents should be sent through courier, speed post, registered post or by person. Telegraphic / fax offer will not be considered and ignored straightway. All tender

documents received after the specified date and time shall not be considered.

The completed tender should be delivered at the Inward Section of the Administrative building of the Central University of Rajasthan, Bandarsindri, Ajmer, Rajasthan on or before Date **19-07-2017 up to 02.00 PM**

The Technical Bid will be opened on 19-07-2017, at 03.00 PM

14) Performance Security :

On receipt of notification of award from the University, the successful Bidder shall furnish the performance security at 5% of the cost of the material ordered in the form of DD in favor of The Central University of Rajasthan or in the form of Bank Guarantee or in another form acceptable to the University. Failure of the successful bidder shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the University may make the award to the next lowest evaluated bidder or call for new bids. Performance Security should be valid up to two months beyond the expiry date of warranty obligation.

15) Rejection of Bids:

- a) If bidders give wrong information in their bid, University reserves the right to reject such bids at any stage and forfeit the Earnest Money Deposit / Performance Bank Guarantee and cancel the order, if awarded.
- b) Incomplete bids are liable to be rejected.
- c) If the technical offer contains any price information the offer will be summarily rejected.
- d) Canvassing in any form in connection with the tender is strictly prohibited and the bids submitted by the bidder who resort to canvassing are liable for rejection.
- e) Unsigned tenders/bids, unattested corrections and over writing by bidders are also liable for rejection.
- f) The schedule for accepting the tenders shall be strictly followed- late tenders shall not be accepted.
- g) Bids submitted without supporting documents as mentioned or required to submit with bids are liable to be rejected.
- h) The Tenderers must confirm in their bid acceptance in full of the terms and conditions in this enquiry. Any non-acceptance or deviations from the terms and conditions must be clearly brought out. However, tenderers must note carefully that any conditional offer or any deviation from the terms and conditions of this enquiry may render the quotation liable for rejection.
- i) Each page of the tender document including all annexure duly stamped and signed by the bidder must be submitted along with the tender bid and tender should be page numbered.

(16) Liquidated damages for delayed supply:

If Vendors fails to deliver any or all products or does not perform the services within the period specified in the contract, university reserves the right to, without prejudice to its other remedies under the contract, deduct from the bill, a sum equivalent to 1% of the price of undelivered stock at the agreed price for each week to maximum limit of 5% of the value of stock so undelivered. Once maximum is reached, the university may consider termination of contract.

(17) Assignment / Subcontracting /sublet :

The Vendor shall not assign the order received, any rights under this agreement or to become due hereunder neither delegated nor subcontracted /sublet any obligations or work hereunder without the prior written consent of the University.

(18) Cancellation:

The University may cancel agreement entered with vendor in whole or in part, for no cause, upon written, FAX, telex, notice, email etc. to the Vendor, effective when sent, provided such notice is sent at ten (10) days prior to the delivery date specified on the face of this order.

The University may cancel order in whole or in part at any time for cause by written, FAX, or e-mail notice to the Vendor, effective when sent, in the event that the Vendor:

- (a) fails to comply with any term or condition of this order including, but not limited to, delivery terms; or
- (b) appoints a receiver, liquidator or trustee in bankruptcy or other similar officer over any or all of its property or assets; or
- (c) files a voluntary petition in bankruptcy; or
- (d) has had filed against it an involuntary petition in bankruptcy which remains in effect for thirty (30) days; or
- (e) voluntarily ceases trading; or
- (f) merges with or is acquired by a third party; or
- (g) Assigns any of its rights or obligations under the Order to a third party without the university's advance written consent.

Upon the occasion of any one of the aforesaid and in addition to any remedies which the university may have in Law or in Equity, the university may also cancel this order or any outstanding deliveries hereunder by notifying the Vendor in writing of such cancellation and the Vendor shall thereupon transfer title and deliver to the university such work in progress or completed material as may be requested by the university. The University shall have no liability to the Vendor beyond payment of any balance owing for Material purchased hereunder and delivered to and accepted by the university prior to the Vendor's receipt of the notice of termination, and for work in progress requested for delivery to the university.

- 19) **Warranty:** Comprehensive Three years Onsite Warranty as mentioned in Annexure 'A1 to A3' i.e. on technical specifications.
- 20) This warranty provision shall survive any inspection, delivery, acceptance, payment, expiration or earlier termination of this order and such warranties shall be extended to the employees, students, and users of the material. Nothing herein, however, shall limit the University's rights in law or equity for damages resulting from delivery of defective goods or damage caused during the delivery of goods or provision of services.
- 21) Rights granted to the University in this article entitled WARRANTIES are in addition to any other rights or remedies provided elsewhere in this order or in Law.
- 22) **Consumables/spares:** All hardware & software including drivers, device interface cards/network adaptor card must be pre-installed & pre configured in the Laptop/Desktop Computer.

23) Patent Indemnity :

The Vendor shall have to indemnify, hold harmless and defend the University, its employees, and students with respect to all claims, suits, actions and proceedings of actual or alleged infringements of any Letter, Patent, Registered or Industrial Design, Trademark or Trade Name, Trade Secret, Copyright or other protected right in any country resulting from any sale, use or manufacture of any Material delivered hereunder and to pay and discharge all judgments, decrees, and awards rendered therein or by reason thereof and bear all expenses and legal fees (including the University's) associated herewith. The university reserves the right to be represented in any such action by its own counsel at its own expense.

24) Indemnity :

The Vendor will indemnify, defend and hold the University, its and students harmless from any loss, expense, claim or damage including reasonable defence costs, arising from any claim or action based on any acts or omissions of the Vendor, its employees, servants, agents or subcontractors. The University reserves the right to be represented in any such action by its own counsel at its own expense.

25) Compliance with Laws:

After acceptance of tender, successful bidder shall have to comply with the requirements of all the existing laws. The Vendor shall also have to comply with the Fair Labour Standards Act and the Occupational Safety and Health Act, and all other applicable laws, ordinances, regulations and codes in the Vendor's performance hereunder. The Vendor will have to indemnify and hold the University and its customers harmless from any loss or damage that may be sustained by the University, by reason of the Vendor's failure to comply with any laws, ordinance, regulations and codes.

26) Tenders received late, incomplete tenders and tenders not in conformity with our prescribed specifications, terms and conditions will be rejected. Central University of Rajasthan will not be responsible for postal delay, non-receipt / non-delivery of tender documents or loss of documents in transit.

27) Law of the Contract:

The agreement entered with vendor shall be governed by and interpreted in accordance with the laws in existence and the Jurisdiction of Ajmer, Rajasthan.

28) Site preparation: The supplier shall inform the University about the site preparation, if any, needed for installation, immediately after receipt of the supply order. Suppliers must provide complete details regarding space and all infrastructural requirements needed for the equipment, which University should arrange before the arrival of equipment to ensure its early installation and smooth operation thereafter. The supplier may offer his advice and render assistance to University in the preparation of the site and other pre-installation requirements.

- 29) Rate quoted by vendor should be valid for at least six months from the date of receipt of quotation.
- 30) As far as possible, quotations should be given for goods of Indian manufacturer and foreign goods quoted and proposed to be supplied should be covered by normal input quota of the dealer.

I/We have read all the enclosed Terms and Conditions carefully and ready to accept and according to that I/We are submitting herewith the tender.

Date : _____

(5) Technical specifications to be filled by bidder**Particulars : High Performance Computing System (HPC)**

| 1. Specification for Master Node | | |
|---|--------------------------------|--|
| Sr. No. | Features | Description |
| RISC Server Specification | | |
| 1 | Processor Type | 2 x Intel® Xeon processors with 12-Core, V4, 2.2GHz, 30M Cache or higher |
| 2 | No of Processor | 2 x 10 Cores 2.9Ghz |
| 3 | Threads | System should able to provide 160 threads |
| 4 | Memory (RAM) | 128 GB DDR4-2400 ECC RDIMM (Max 1TB, 24 DIMMs or higher) with Expandability to 1024GB DDR4 RAM |
| 5 | Cache Memory | Minimum Cache should be 8MB per core |
| 6 | System Memory Bandwidth (GB/s) | System should support total memory bandwidth of 115GB/socket |
| 7 | Internal Hard Disk Capacity | 2 x 1 TB SATA Disks |
| 8 | Bus technology | PCIe Gen3 |
| 9 | GPU Support | System should support Nvidia Tesla GPU for Computing |
| 10 | I/O Slots | 5 PCIe hot plug Gen3 slots |
| 11 | Infiniband Port | EDR infiniband port |
| 12 | Storage Adaptor | 16Gb FCAL HBA adaptor |
| 13 | Ethernet Port | 1 Gbps Ethernet 4 ports |
| 14 | Power supply | 2 x 1300W Power supply and Redundant Cooling fan/subsystems |
| 15 | Operating System | RHEL |
| 16 | Form factor/Node Type | 2U 19- inch wide Rack Mountable with rail kit |
| 17 | RAID | SAS 12Gbps RAID controller with 2GB cache, supports RAID 0, 1, 10, 5 & 6 |
| 18 | HDDs | 4 x 1 TB, 10K RPM Enterprise SAS hot-plug at least 8 Hot Swap Hard Drive bays or better |
| 19 | NIC | 2 x Gigabit(10/100/1000Mbps) Ethernet ports on-board |
| 20 | Interconnect | Hi Speed (100Gbps) Single Port Omni path Interconnect, with cable of suitable length |
| 21 | Graphics | On-board graphics using Server Grade Graphics Controller |
| 22 | Free Slot(s) | At least 6 PCI-E 3.0 x16 full-height, Half-length slots |
| 23 | Ports | 2 USB, 2 x Network, 1 x Management, 1 x Interconnect(100Gbps), 1 x Video |
| 24 | FC port | 2 x 8GB FC port |
| 25 | Chassis | 1U / 2U rack-mountable or better with sliding rails |
| 26 | Peripherals | 18.5" TFT Color Monitor, Keyboard & Optical Mouse |
| 27 | Warranty | At least 3 years on site |

2. Specification for Compute Node

| Sr. No. | Features | Description |
|----------------------------------|--------------------------------|--|
| RISC Server Specification | | |
| 1 | Processor Type | 64 Bit, Processor |
| 2 | No of Processor | 2 x 10 Cores 2.9Ghz |
| 3 | Threads | System should able to provide 160 threads |
| 4 | Memory (RAM) | System should be equipped with at least 256 GB DDR3 memory with Expandability to 1024GB DDR3 RAM |
| 5 | Cache Memory | Minimum Cache should be 8MB per core |
| 6 | System Memory Bandwidth (GB/s) | System should support total memory bandwidth of 115GB/socket |
| 7 | Internal Hard Disk Capacity | 2 x 1 TB SATA Disks |
| 8 | Bus technology | PCIe Gen3 |
| 9 | GPU Support | System should support Nvidia Tesla GPU for Computing |
| 11 | I/O Slots | 5 PCIe hot plug Gen3 slots |
| 12 | Infiniband Port | EDR infiniband port |
| 14 | Ethernet Port | 10 Gbps Ethernet 4 ports |
| 15 | Power supply | 2 x 1300W Power supply and Redundant Cooling fan/subsystems |
| 16 | Operating System | Fully certified/compatible with latest RHEL 7.x |
| 17 | Chasis Form Factor | 2U. That many of chasis infrastructure should be provided such that min. 8 nodes can be populated for future scalability |
| 18 | Form factor/Node Type | 2U 19- inch wide Rack Mountable with rail kit |
| 19 | Warranty | At least 3 years on site |

3. Specification for SAN storage

| Sr. No. | Features | Description |
|---------|--------------------------|--|
| 1 | RAID controller | Dual Active Controller with no single point of failure in the storage array |
| 2 | Cache | 1)The Storage subsystem shall be configured with minimum of 16 GB usable cache 2)It shall support de-staging of cache to disks on power down or shall support internal battery backup of cache for at least 48 hours. The data in cache shall not be lost in the case of power failure. |
| 3 | Host Interface | 1) Storage system should be configured with 8 numbers of 16 Gbps FC, front-end ports. |
| 4 | Drive Interface | Storage should support at least 2 numbers of ports with 12 Gbps or higher SAS for connectivity to disk drives. |
| 5 | Support Drives | The storage subsystem shall support 300/450 /600 GB/900GB FC /SAS disk and 2 TB or higher SATA/FATA /Nearline disk drives. |
| | | Storage should support SSD drive. The storage shall also support the functionality to automatically move the data from lower performing disk to SSD, based on the performance requirement. Required licenses for the same shall be provided. |
| 6 | RAID Levels | 0,1,5,6,10 |
| 7 | San Supported | All Standard SAN Switch needs to be supported. |
| 8 | Disk Scalability | The storage should be configured with 12 x 8TB 7.2K RPM HDD. The storage should be scalable to at least 240 drives. |
| 9 | Availability | 1)Should offer dual active-active and failover controllers Should offer redundant power supplies and cooling units Should support hardware based RAID 0, 1, 5 and 10 Should support LUN Masking and software for the same should be configured 2)It should support Non-disruptive component replacement of controllers, disk drives, cache, power supply, fan subsystem etc. The storage shall support the following High Availability Clusters solution from HP, IBM, Symantec, EMC , SUN and Windows |
| 10 | Licensing | Licenses for software (Storage Array Management, Point-in Time Copy, Volume Copy, multipathing software for host) should be provide as part of the solution System should be configured with necessary multipathing components for high availability Required licenses for Snapshots/clones should be configured. |
| 11 | Management | The storage system shall be configured with GUI based management software as below: •Monitor and manage the storage array •Configuring PIT's •LUN management. •Storage Component replacement, etc. |
| 14 | Operating System Support | The storage system shall support the latest OS releases & Cluster of the following mentioned servers / OS:- CISC/RISC/EPIC-based Servers running Microsoft, HP, IBM, Sun, Linux |
| 15 | Connectivity | FC port : More than 2, optional upgrade |
| 16 | Power Supply | Min 1300W, 1+1 redundant, hot-plug power supplies |

| 4. Hi Speed Interconnect Switch based on 100GBps Connectivity (Non-Blocking) Qty.: | |
|---|--|
| Ports | At least 24 (100 GBps) Hi speed interconnect ports |
| Cables | Interconnect switch must be supplied with required cables of sufficient length |
| Accessories | Required accessories must also be supplied with the switch |
| P. Supply | Dual-redundant power supplies within built redundancy |
| Communication and Management | 24 port Gigabit Ethernet Switch for communication and management with cables |

| 5. 42U Rack Qty.: 1 | |
|---|---|
| 42U server rack, with required number of PDUs, cable managers, keyboard tray and all other required accessories | |
| 6. Training | |
| Installation & Training by Certified Professionals as required | |
| 7. Software & Installation (Components Include) | |
| OS | Enterprise Linux |
| Job Schedulers | <ol style="list-style-type: none"> 1. Workload cum resource manager with policy-aware, resource-aware and topology-aware scheduling 2. Advance reservation support 3. Support of job submission through CLI, Web-services and APIs 4. Heterogeneous cluster support 5. Multi-cluster support 6. Preemptive and backfill scheduling support 7. Application integration support 8. Live reconfiguration capability 9. SLA/Equivalent 10. GPU Aware scheduling 11. Intuitive web interface to submit and monitor jobs |
| Commercially licensed software only should be quoted (Support should be provided by Server OEM only) | |
| | |
| | |
| | |
| | |
| | |
| Job Schedulers | |
| Commercially licensed software only should be quoted | |
| | |
| | |
| MPI | Open MPI, MVAPICH |
| Libraries | Open Source Libraries for C, C++ & FORTRAN, MPI, MKL, Blas 1,2,3, Lapack, Scalapack etc. |
| Resource Management | Torque |
| Cluster Management | The cluster management stack with a web based monitoring for all the cluster nodes. |

| | |
|---|---|
| Cluster monitoring and management software with the following features, | 1. Cluster manager with provisioning, monitoring and reporting capabilities |
| Commercially licensed software only should be quoted | 2. Support Package and Image based provisioning |
| | 3. Intuitive web interface to manage and customize the cluster |
| | 4. Linux based cluster manager |
| | 5. Customizing networks and compute node profiles through GUI |
| | 6. Customizing compute nodes to max, upto changing kernel parameter |
| | 7. Able to Push configuration changes and updates to the compute nodes without reinstalling and rebooting |

Particular – Optical Tweezer
Quantity required – 01 no.

Modular Optical Tweezer (MOT) Specifications

Central University of Rajasthan requires a Modular Optical Tweezer with force measurement and particle tracking module and other accessories with following details.

- Modular optical tweezers should be an all in one system incorporated with Laser, microscopic objective lens, condenser lens, camera, sample preparation kit, IR laser detection card, IR laser safety glass including all minor components such as mirror, dichroic mirror, lenses, beam collimator, optical cage stand and slide holder etc.
- This system should be capable of trapping the microscopic particles, biological samples with trapping force measurement and particle tracking module.
- Software Package for full computer control of the 3-axis piezo-driven sample positioning stage and to read out the quadrant detector signal. It also includes software for the CCD Camera for video imaging.
- MOT should be suitable to assemble on honeycomb bread board optical table (not included).
- specifications for the major elements of the system are given below.

| Modular Optical Tweezer with force measurement and particle tracking module Specifications | |
|---|--------------------------------|
| Trap Force | ~10 pN |
| Spot Size | 1.1 μ m |
| Depth of Focus | 1 μ m |
| C W Laser Wavelength (Variable power) | 1064 nm |
| Max Power at Output (Variable power) | 5 W |
| Objective Specifications | |
| Type | Nikon 100X Immersion Objective |
| Numerical Aperture | 1.25 |
| Input Aperture | \varnothing 5 mm |
| Working Distance | 0.23 mm |
| Wavelength Range | 380 - 1100 nm |
| Recommended Cover Glass Thickness | 0.17 mm |
| Condenser Lens Specifications | |
| Type | Nikon 10X Air Condenser |
| Numerical Aperture | 0.25 |
| Working Distance | 7 mm |
| Wavelength Range | 380 - 1100 nm |
| CMOS Camera (DCC1240C) | 1280X1024 pixels |

Other accessories:

- i) Sample preparation kit
- ii) IR Laser detection card
- iii) IR laser safety glass (with prescription) comfort style
- iv) Educational materials

Installation and warranty:

- Installation, demo, and one day technical training to the faculty, researchers, graduate students to be done at site with no extra cost.
- System should have warranty of 3 years with complete coverage of spare, hardware consumables, lasers, camera and other modules.

Specifications for Arc Melting Furnace

Central University of Rajasthan requires a compact arc melting furnace, designed as desk top unit, complete with electrode and electrode holder, in-house with operating element, power generator, vacuum pump and other accessories with the following specifications.

- 1) Double walled water-cooled chamber, with volume around 1dm^3 (1 lt) with maximum melting temperature around 4000°C . Weight: Lesser than 15 Kgs.
- 2) Outer glass assembly: Transparent along with eye protection shield for arc viewing.
- 3) Inner glass assembly: Ordinary, transparent and replaceable.
- 4) Top flange should have the stinger (electrode feed through) assembly and ports for pump, gauges, electrode, gas etc.
- 5) The electrode should be freely movable and water-cooled with replaceable tungsten (high purity) tip for arcing purpose, along with, water cooled power cables to supply power to the electrode, sealed and electrically isolated from the operator.
- 6) The hearth (crucible) to be made out of OFHC copper. The hearth should have provision to hold several cavities for the sample to be melted.
- 7) The hearth assembly shall contain one circular groove ~25mm diameter, 2.5mm deep; one cylindrical groove ~ 10mm wide, 2.5mm deep and 27mm long; one circular groove for titanium melting. The hearth assembly can be raised or lowered by a micrometer screw arrangement from outside.
- 8) This furnace should be designed to operate in inert gas atmosphere. A relief valve and a gauge for measuring the gas pressure to be provided on the chamber.
- 9) Provision should be there for trapping the solids which come out from the melting process and to prevent them from entering into vacuum pumps. Top cover of the trap to be easily removed and reassembled.
- 10) The furnace should have in-built powerful arc melting generator with high-frequency ignition, which can produce a very stable arc with the following specifications.
 - Contactless high frequency ignition of the arc
 - Melting current: DC range (3 A-180 A or higher)
 - Melting range: up to 4000°C
 - Melting quantity: maximum 20 gms
 - Power cables to the electrode system and the crucible plate in the melting chamber, water cooled
 - Current indicator and setting potentiometer

- Power requirements: 220/240 volts AC, single phase, frequency 50 Hz
 - Required safety control
- 11) Vacuum System: Double stage rotary vane pump for achieving pressure <0.005 mbar (built in) with a pumping speed of 2m³/h or better. Noise level of the pump should < 60 dB. Vacuum hose, connections and other accessories need to be supplied.
- A pirani gauge (measuring range: 10³ mbar to 5 × 10⁻⁴ mbar or better) display and Gauge controller suitable for the sensor. (Oil free dry vacuum pump which will be suitable for the system and producing the specified vacuum can also be quoted). Housing all the components with necessary valves for evacuation and gas inlet should be provided.
- 12) Appropriate chiller for water cooling of various parts of the furnace including the main chamber, power cables etc. Digital controller and display for setting and displaying water temperature. The after sale service of the water chiller will be the responsibility of the vendor offering the arc melting furnace.
- 13) **Warranty:** Three years onsite comprehensive maintenance and warranty for the arc melting furnace and water chiller from date of full installation.
- 14) **Other accessories:**
- i) Tungsten rod
 - ii) Set of O-rings, bolts, nuts, washers etc.
 - iii) Spare water cooled copper hearth
 - iv) Special cold crucible for the production of round shaped alloy rods
- 15) Terms & Conditions
- a) The Bidder has to state in detail the Electrical Power requirements, floor Space etc needed to house the system i.e. pre-installation facilities required for installation should be mentioned in the technical bid.
 - b) Vendor should have 5 or more installations of Arc Melting Furnace (similar specifications) in last 5 years in India (Enclose full list of users in India). Order copies should be submitted as a proof.
 - c) One set of operating manual and service manual (in English) should be provided with the equipment.
 - d) 5 years essential spares including all important control electronics should be provided. The detailed list of spares to be enclosed.
 - e) A list of institutes in India where similar equipment has been sold or is under operation should be provided.
 - f) Routine training as well as training during installation at site free of cost.
- Demonstration of melting some samples having different melting conditions should be provided to establish performance of the instrument.

- g) The manufacturer has to stand guarantee for the relocation of the system from the present location in the campus of Central University of Rajasthan, to another location inside the same campus (about 1 km) if required. They must be in a position to dismantle the setup in the present location and re-install it to the new location. Necessary charges for the same may be shown separately in their offer.

(6) Financial bid to be filled by bidder for High performance Computing System

| Name of Item | Make/Model | Unit Required | Rate per unit | Total Price |
|--|------------|---------------|-----------------------|-------------|
| High Performance Computing System | | | | |
| For Annexure A-1 | | 01 | | |
| | | | | |
| | | | Add-Any other charges | |
| | | | Taxes if any | |
| | | | Gross. Total | |

Financial bid to be filled by bidder for Optical Tweezers

| Name of Item | Make/Model | Unit Required | Rate per unit | Total Price |
|--------------------------------|------------|---------------|-----------------------|-------------|
| <u>Optical Tweezers</u> | | | | |
| For Annexure A-2 | | 01 | | |
| | | | | |
| | | | Add-Any other charges | |
| | | | Taxes if any | |
| | | | Gross. Total | |

Financial bid to be filled by bidder for Arc Melting Furnace

| Name of Item | Make/Model | Unit Required | Rate per unit | Total Price |
|-----------------------|------------|---------------|-----------------------|-------------|
| <u>Furnace</u> | | | | |
| For Annexure A-3 | | 01 | | |
| | | | | |
| | | | Add-Any other charges | |
| | | | Taxes if any | |
| | | | Gross. Total | |

(7) FORMAT OF BANK GUARANTEE FORM

This guarantee should be furnished by a Nationalized Bank / Scheduled Bank, authorized by RBI to issue a Bank Guarantee.

This bank guarantee should be furnished on stamp paper of Rs. 100/-

The stamp paper should have been purchased in the Name of the Bank executing the Guarantee.

In the case of foreign bidder the B.G may be furnished by an international reputed bank acceptable to the PURCHASER countersigned by any Nationalized / Scheduled Bank in India authorized by Reserve Bank of India.

PERFORMANCE BANK GUARANTEE

1. WHEREAS M/s, having its registered office at hereinafter called the Distributor in India for herein after called "The supplier" for the supply of, in consideration of the Central University of Rajasthan, Department of, School ofCentral University of Rajasthan, , Kishangarh (hereinafter called "CURAJ") P.O. No. CURAJ / dt. placed an order for the due fulfillment by the said supplier of the terms and conditions in the purchase order, on production of a Bank Guarantee for Rs..... (Rupees only). We Bank, (Rein after referred to as "the Bank") at the request of supplier do hereby undertake to pay to the CURAJ an amount on exceeding to Rs..... (Rupees..... only).
2. WeBank do hereby undertake to pay CURAJ, the amounts due and payable under this guarantee without any demur, merely on a demand from CURAJ stating that the amount claimed is required to meet the recoveries due or likely to be due from the said supplier. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under the guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding to Rs..... (Rupees..... only)
3. We undertake to pay to the CURAJ any money so demanded notwithstanding any dispute or disputes raised by the supplier in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be valid and discharge of our liability for payment there under and the Supplier shall have no claim against us for making such payment.
4. We the Bank further agree that the guarantee herein contained shall remain in full force and affect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the CURAJ under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till Registrar on behalf of the CURAJ certified that the

terms and conditions of the said Agreement have been fully and properly carried out by the said and accordingly discharges this guarantee.

5. We, the Bank further agreed that the CURAJ shall have the fullest liberty without our consent and without affecting in any manner our obligations here under to vary any of the terms and conditions of the said Purchase Order or to extend the time of performance by the said contractor from time to time or to postpone for any time or from time to time any of the powers exercisable by the CURAJ against the said supplier and to forbear or enforce any of the Terms and Conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said supplier or for any forbearance act or omission on the part of the CURAJ or any indulgence by the CURAJ to the said supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.
6. This guarantee will not be discharged due to change in the constitution of the bank or the supplier.
7. We, the Bank lastly undertakes not to revoke this guarantee except with the previous consent of the CURAJ in writing.
8. This guarantee shall be valid upto unless extended on demand by CURAJ. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs...../- (Rupees only).

Notwithstanding anything contained herein

1. Our liability under this bank guarantee shall not exceed Rs...../- (Rupees only)
2. Bank guarantee shall be valid upto
.....
3. We are liable to pay the guaranteed amount or part thereof under this bank guarantee only and only if you serve upon us a written claim or demand on or before
.....

Dated:

Signature & Seal of the Bank

Note: The above format contains specific clauses and expressions. These clauses and expressions can vary depending upon the nature / type of agreement and situation. Basic aspect to be kept in mind is that interest of CURAJ is fully protected.

(08) DECLARATION REGARDING BLACKLISTING / DEBARRING FOR TAKING PART IN TENDER.

(To be executed & Attested by Public Notary / Executive Magistrate on Rs. 50/- non judicial Stamp paper by the bidder)

I / We _____ Manufacture / Partner(s)/ Authorized Distributor /agent of M/S. _____ hereby declare that the firm/company namely M/s. _____ has not been blacklisted or debarred in the past by Union / State Government or organization from taking part in Government tenders in India.

Or

I / We _____ Manufacture / Partner(s)/ Authorized Distributor / agent of M/s. _____ hereby declare that the Firm / company namely M/s. _____ was blacklisted or debarred by Union / State Government or any Organization from taking part in Government tenders for a period of _____ years w.e.f. _____ to _____. The period is over on _____ and now the firm/company is entitled to take part in Government tenders.

In case the above information found false I / we are fully aware that the tender / contract will be rejected / cancelled by the Central University of Rajasthan, and EMD / SD shall be forfeited.

In addition to the above, Central University of Rajasthan, will not be responsible to pay the bills for any completed / partially completed work.

Name _____

Address _____

Attested:

(Public Notary / Executive Magistrate)

End of Tender Document

