Bandarsindri – 305817 Distt. Ajmer, Rajasthan



# TENDER NOTICE & DOCUMENT FOR SUPPLY AND INSTALLATION of "Laboratory Equipment" under (HEFA Grant) at Central University of Rajasthan

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(Established under the Central Universities Act 2009) Bandarsindri – 305817Distt.:Ajmer, Rajasthan. www.curaj.ac.in

#### 1. Schedule of Tender:

Tender document for the supply and installation of "Laboratory Equipment" Under (HEFA Grant) at Central University of Rajasthan.

Sealed tenders are invited from the reputed OEM/ authorized dealers/firms etc. for **supply and installation of "Laboratory Equipment"** with "**Part A**" as Technical Bids and "**Part B"** as Financial Bids. The details are as follows:

S. No	Name of the Equipment	Quantity	Amount of E.M.D (Rs	Tender Fee
1.	HPLC-Inductively Coupled Plasma-Mass Spectrometry (HPLC-ICPMS) with accessories	01	3,60,000.00	Rs.1000/- Tender fee Nil, if downloaded from website.
2.	Single Crystal XRD	01	10,60,000.00	from website.
3.	Liquid Nitrogen Generation Plant	01	2,00,000.00	

Tender Document upload (publish) date/time : 25/08/2022, up to 5.00 P.M.

Pre-Bid Meeting : 05/09/2022, 10:30 AM onwards
Last Date of Submission of Tender : 14/09/2022, up to 02.00 P.M.

Date of opening of Tender (Technical Bid) : 14/09/2022, up to 03.00 P.M.

**Type of Tender:** Two Bid Systems. (Rule 163 GFR 2017)

**Mode of EMD and Tender fee:** Bidders should send separate D.D. for Tender Fee and EMD (Refundable without any Interest) in favor of Central University of Rajasthan, payable at Kishangarh/ Bandarsindri.

#### **NOTE:**

- Separate tender should be submitted for each equipment, if participating for more than one equipment.
   Name and S. No. of the Equipment should also be mentioned on the Envelope, otherwise tender may be rejected.
- 2. If the tender is not opened on the above date, due to unforeseen circumstances, then the next working day will be considered as tender opening date.
- 3. The bidders who fail to submit the required tender fee, if applicable and EMD, their techno financial bids will not be considered for opening.
- 4. Bidder or their authorized representatives may attend the opening of the tender.

(Established under the Central Universities Act 2009) Bandarsindri – 305817 Distt.: Ajmer, Rajasthan. www.curaj.ac.in

#### 2. TENDER NOTICE

Tender Notice for supply and installation of "Laboratory Equipment" at Central University of Rajasthan



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

CURAJ/Purchase/Tender/2022-23/139/1903

Dt. 25.08.2022

#### **TENDER NOTICE**

Sealed quotations are invited from the Manufacturers, Authorized Dealers/Firms for the supply & installation of laboratory equipment under (HEFA Grant) 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 14/09/2022 up to 02.00 P.M.** Technical Bids will be opened on **same day at 03.00 P.M.** in the presence of available bidders, if any. For further details, please visit our website <a href="www.curaj.ac.in">www.curaj.ac.in</a> and CPP Portal i.e. <a href="https://eprocure.gov.in">https://eprocure.gov.in</a>

Registrar

## राजस्थान केन्द्रीय विश्वविद्यालय में प्रयोगशाला उपकरणों की आपूर्ति एवं स्थापना के लिये निविदा सूचना।



राजस्थान केन्द्रीय विश्वविद्यालय राष्ट्रीय राजमार्ग ८, किशनगढ़ जिला अजमेर 305817 दूरमाषः 01463— 238755 वेबसाइट www.curaj.ac.in

सी0यू0आर0ए0जे0 / क्र0य / टेण्डर / 2022-23/ 139/1903

दिनांकः 25.08.2022

#### निविदा सूचना

विश्वविद्यालय में प्रयोगशाला उपकरणों under (HEFA Grant) की आपूर्ति एवं स्थापना के लिये निर्माताओं / अधिकृत विक्रेताओं / फर्मों से मुहर बंद निविदायें आमंत्रित की जाती हैं। इच्छुक निविदाकर्ता मुहर बंद लिफाफे में पूर्ण रूप से भरी हुई निविदा (तकनीकी और वित्तीय) अधोहस्ताक्षरकर्ता के कार्यालय में दिनांक 14.09.2022. को अपराह्म 02.00 बजे तक भेज सकते हैं। प्राप्त निविदायें उसी दिन अपराह्म 3.00 बजे निविदाकर्ताओं की उपस्थिति में खोली जायेंगी, यदि हों। निविदा सूचना एवं विस्तृत जानकारी विश्वविद्यालय वेबसाइट www.curaj.ac.in एवं CPP Portal https://eprocure.gov.in पर उपलब्ध है।

कुलसचिव

Central University of Rajasthan, Ajmer, invites sealed tenders as a "2 Bid System"\_from reputed original equipment manufacturers/ authorized dealers/ suppliers for supply and installation of **Laboratory Equipment at Central University of Rajasthan**, in two parts, "Part A" (Technical Bid) and "Part B" (Financial Bid).

The detailed terms & conditions, name of items etc. can also be downloaded from the website <a href="www.curaj.ac.in">www.curaj.ac.in</a> or CPP Portal i.e. <a href="https://eprocure.gov.in">https://eprocure.gov.in</a>. All other amendment/ modification/ Corrigendum in future will only be published on the website <a href="www.curaj.ac.in">www.curaj.ac.in</a> or CPP Portal i.e. <a href="https://eprocure.gov.in">https://eprocure.gov.in</a>

#### 3. Important Notes to the Bidder:

- 1. Central University of Rajasthan, Bandarsindri, invites tenders under "2 Bid system" for supply and installation of **Laboratory Equipment at Central University of Rajasthan** as per the specifications given in the "**Annexure A-1 to A-3**".
- 2. Tender document can be downloaded from the University website at URL Link: or Central Public Procurement Portal (CPPP) at www.eprocure.gov.in and http://www.curaj.ac.in/tenders.
- 3. The bidders are requested to read the tender document carefully and ensure all the compliance with instructions herein. Non-compliance of the instructions contained in this document may disqualify the bidders from the tender process.

All offers should be written in the English and price should be written in both, figures and words. The offer should be typed or written in pen ink or ball pen. Offer in pencil will be ignored. The tenderer shall certify that the rates being quoted are not higher than those quoted for any Govt. Deptt. or Institution or DGS&D or any organization and that if during the years at any time the tenderer has quoted rates lower than those quoted against this tender, the University would be given the benefit of Lower rates by the tenderer. The relevant documents should be enclosed with technical bid.

The prescribed tender documents should be submitted in one sealed envelope duly super scribed with "Tender for Laboratory Equipment" at Central University of Rajasthan at Bandarsindri, Ajmer (Rajasthan)" (Name and S. No. of the equipment). This sealed envelope should contain three sealed envelopes marked A, B, & C as prescribed as under:

- a) Envelope A containing appropriate Tender Fee & Earnest Money Deposit (EMD) in the form of Demand Draft in favor of CENTRAL UNIVERSITY OF RAJASTHAN payable at Bandarsindri, Kishangarh/Madanganj. Tender shall be rejected if the Earnest money D.D.'s are not found in proper order.
- b) Envelop B containing the Technical Bid along with the supporting documents. (See Terms & Conditions for more details)
- c) Envelop C containing the Financial Bid.
  The tender document should be sent to:
  The Registrar
  Central University of Rajasthan
  N.H.-8 Road, Jaipur-Ajmer Highway,
  Bandarsindri, Kishangarh, Distt. Ajmer,
  Rajasthan- 305817
- 4. The complete tender document is to be signed with seal & is to be placed in the separate envelope along with the necessary required documents.
- 5. Bidders are required to enclose photocopy of cheque & NEFT Bank Details with tender /quotation to enable us to making payment through on line transfer for refund of EMD.
- 6. All bids must be delivered to the above office up to the date and time indicated above. Bids will be opened in the presence of Bidders' authorized representatives who choose to attend on the specified date and time. In the event of the date specified for bid receipt and opening being declared as a closed holiday for purchaser's office, the due date for submission of bids and opening of bids will be next working day or as announced by the University in the appropriate manner.
- 7. Any clarification regarding tender specification before submission of tender document can be discussed with the Officer Incharge (Purchase) 01463-238757 email id is oic.purchase@curaj.ac.in.
- 8. Please Note that the tender document is subjected to verification with the original document, and if any discrepancy is found, the tender would be rejected. Tenders (Technical Bid) will be opened first in the presence of the attending vendors.

Registrar CENTRAL UNIVERSITY OF RAJASTHAN Bandarsindri, Rajasthan

## (To Be Filled By the Vendor/ Bidder)

1.	Nature of the Equipment/Instrument:				
2.	Name of the Vendor:				
3.	Full Address of the Vendor:				
4.	Telephone/ Mobile No.				
5.	Fax. No. (If any)				
6.	Registration No. of Firm				
7. I	PAN				
8. G	ST Registration No.				
9. D	etails of the D.D.				
Fo	or <b>Tender Fee (Non-Refundable)</b> :	D.D. No.		_dated	
	For E.M.D Amount (Refundable)	:	D.D. No		dated
	Drawn from the bank				
	Drawn from the bank	-			
	Seal and Signature of the hidder/Vendor				

#### 4. TERMS AND CONDITIONS OF THE TENDER

- 1. All offers should be written in the English and price should be written in both, figures and words. The tenderer shall certify that the rates being quoted are not higher than those quoted for any Govt. Deptt. or Institution or any organization during last one year. If during the last one year at any time the tenderer has quoted rates lower than those quoted against this tender, the University would be given the benefit of Lower rates by the tenderer. The relevant documents should be enclosed with technical bid.
- 2. The duly constituted committee appointed by the competent authority of Central University of Rajasthan, Bandarsindri, reserves the right to select some items (in single or multiple units) and reject the others or all items mentioned in the Schedule. The same committee will also reserve the right to revise or alter the specifications before acceptance of any tender with prior notice on the University and Central Public Procurement Portal (CPPP) at www.eprocure.gov.in.
- **3.** Incomplete tenders, amendments and additions to tender after opening are liable to be ignored and rejected.
- **4.** The Bid shall be treated as a 2 Bid System. The Technical Bid will be considered for applicants who's Tender Fee, if applicable and Earnest Money Deposit (EMD) is found in order. Financial Bid shall be opened for those bidders who have qualified in Technical Evaluation.
- 5. Changes/Amendment: At any time prior to the deadline for submission of tender, the University may amend the tender documents issuing by addendum/corrigendum. The University shall have the right at any time, by written notice, in the form of an amendment order, to make any changes, if 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/ modified Order issued and signed by the University.
- **6. Bid Validity-** Bids should be valid for a period of 180 days from the date of opening of financial bid.
- 7. **Withdrawal of bids**: No bidder will be allowed to withdraw its bid in the interval between the deadline of submission of bids and expiration of period of bid validity. Withdrawal of bid during this period will result in forfeiture of the bidder's bid security (EMD) and other sanctions.
- **8. OEM/Authorized Dealer/agents of Supplier:** when a firm sends quotation for an item manufactured by some different company, the firm is also required to attach, in its bid, the manufacturer's authorization certificate and also manufacturer's confirmation of extending the required warranty for that product. In cases where the manufacturer has itself submitted the bid, the bids of its authorized dealer will not be considered and EMD will be returned.
- 9. Agency Commission: The amount of Agency Commission, in case of manufacturer/supplier is from the foreign country (normally not exceeding five percent) payable to the Indian Agent should not be more than what is specified in the Agency agreement (a certified copy should be submitted along with the bid) between the bidder and the Indian Agent. The Indian Agent will be required to submit a certificate along with their Agency Commission bill, confirming that the amount claimed as Agency Commission in the bill has been spent/will be spent, strictly to render services to the foreign Principal, in terms of the Agency Agreement. The Purchaser or their authorized agencies and/or any other authority of the Government of India shall have rights to examine the books of the Indian Agent and defects or misrepresentations in respect of the afore indicated confirmation coming to light during such examinations will make the foreign Principal (i.e. the Contractor) and their Indian Agent liable to be banned/ suspended from having business dealings with the Purchaser, following laid down procedures for such banning/suspension of business dealings.
- **10. Conflict of Interest among Bidders/Agent:** The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:
  - a. they have controlling partner (s) in common; or
  - b. they receive or have received any direct or indirect subsidy/financial stake from any of them; or

- c. they have the same legal representative/agent for purposes of this bid; or
- d. they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder; or
- e. bidder participates in more than one bid in this bidding process. Participation by a bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does
  - not limit the inclusion of the components/sub-assembly/assemblies from one bidding manufacturer in more than one bid.
- f. in cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:
  - I. The principal manufacturer directly or through one Indian agent on his behalf; and
  - II. Indian/foreign agent on behalf of only one principal.
- g. a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid;
- h. in case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/common business/ management units in same/similar line of business.
- 11. Bid Security: Bid Security should remain valid for a period of 45 (Forty Five) days beyond the final bid validity period. The Bid Security can be submitted in the form of an account payee demand draft, fixed deposit receipt, or banker's cheque. The MSEs are provided tender documents free of cost and are exempted from payment of earnest money, subject to furnishing of relevant valid certificate for claiming exemption. A bidder's Bid Security will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required Performance Security within the specified period. Bid securities of the unsuccessful bidders should be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. Bid Security should be refunded to the successful bidder on receipt of a performance security.
- 12. MSE Bidders: In tender, participating Micro and Small Enterprises (MSE) quoting price within price band of L1+15 (fifteen) per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 20 (twenty) per cent of total tendered value. The 20 (twenty) per cent quantity is to be distributed proportionately among these bidders, in case there are more than one MSMEs within such price band. Within this 25% (Twenty Percent) quantity, a purchase preference of four per cent (that is, 25 (twenty) per cent out of 25 (twenty) per cent) is reserved for MSEs owned by Scheduled Caste (SC)/Scheduled Tribe (ST) entrepreneurs (if they participate in the tender process and match the L1 price). Provided that, in event of failure of such SC/ST MSE to participate in tender process or meet tender requirements and L1 price, four per cent sub-target shall be met from other MSE. MSEs would be treated as owned by SC/ST entrepreneurs:
  - a) In case of proprietary MSE, proprietor(s) shall be SC /ST
  - b) In case of partnership MSE, the SC/ST partners shall be holding at least 51% (fifty-one percent) shares in the unit
  - c) In case of Private Limited Companies, at least 51% (fifty-one percent) share shall be held by SC/ST promoters.

#### 13. Public Procurement (Preference to Make in India), Order 2017

As per Public Procurement (Preference to Make in India), revised Order 2017 the 'Class-I local supplier' will get preference over non local supliers', as defined under the Order,

I. **Class-I local supplier'** means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%, as defined under this Order.

- II. **Local content'** means the amount of value added in India which shall, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.
- III. **Purchase Preference:** Purchase preference shall be given to 'Class-I local supplier' in procurements in the manner specified here under.
  - a) If L1 bidder is not a 'Class-I local supplier', 50% of the order quantity shall be awarded to L1 bidder. Thereafter, the lowest bidder among the 'Class-I local supplier' will be invited to match the L1 price for the remaining 50% quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-I local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I local supplier' within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly.
  - b) In case some quantity is still left uncovered on Class-I local suppliers, then such balance quantity may also be ordered on the L1 bidder.
  - c) In the procurements of goods or works, which are not divisible in nature, and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:
    - I. Among all qualified bids, the lowest bid will be termed as L1. If L1 is 'Class-I local supplier', the contract will be awarded to L1.
    - II. If L1 bidder is not 'Class-I local supplier', the lowest bidder among the 'Class-I local supplier', will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier' subject to matching the L1 price.
    - III. In case such lowest eligible 'Class-I local supplier' fails to match the L1 price, the 'Class-I local supplier' with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price; the contract may be awarded to the L1bidder.
  - d) "Class-II local supplier" will not get purchase preference in any procurement undertaken by procuring entities.
  - e) **Margin of Purchase Preference**: The margin of purchase preference shall be 20%.
  - f) **Exemption of small purchases:** procurements where the estimated value to be procured is less than Rs. 5 lakhs shall be exempt from this Order.
  - g) Verification of local content:
    - a) The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
    - b) In cases of procurement for a value in excess of Rs. 10 crores, the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
      - c) False declarations will be in breach of the Code of Integrity under Rule 175 (1) (i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

d) A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment.

#### 14. Restrictions for bidders from countries sharing land border in India

- i. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority.
- ii. "Bidder" (including the term 'tenderer', 'consultant' or 'service provider' in certain contexts) means any person or firm or company, including any member of a consortium or joint Venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.
- iii. "Bidder from a country which shares a land border with India" for the purpose of this Order means.
  - a. An entity incorporated, established or registered in such a country; or
  - b. A subsidiary of an entity incorporated, established or registered in such a country; or
  - c. An entity substantially controlled through entities incorporated, established or registered in such a country: or
  - d. An entity whose beneficial/owner is situated in such a country; or
  - e. An Indian (or other) agent of such an entity; or
  - f. A natural person who is a citizen of such a country; or
  - g. A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.
- iv. The beneficial owner for the purpose of (iii) above will be asunder:
  - 1. In case of a company or Limited Liability Partnership, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

#### Explanation—

- a) "Controlling ownership interest" means ownership of or entitlement to more than twenty-five per cent. of shares or capital or profits of the company;
- b) "Control" shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights orshareholders agreements or voting agreements;
- 2. In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership;
- 3. In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals;
- 4. Where no natural person is identified under (1) or (2) or (3) above, the beneficial owner is the relevant natural person who holds the position of senior managing official;
- 5. In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.
- v. An Agent is a person employed to do any act for another, or to represent another in dealings with third person.

#### **Model Certificate for Tenders**

"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India,' I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard

and is eligible to be considered. [Where applicable, evidence of valid registration by the Competent Authority shall be attached.]"

- 15. Performance Security: On receipt of notification of award from the University, the successful Bidder within 14 days shall furnish the performance security at 3% of the cost of the material ordered in the form of DD/FDR in favor of The Central University of Rajasthan or in the form of Bank Guarantee issued/confirmed from any of commercial bank in India in an acceptable form. Performance security should remain valid for a period of 60 days beyond the date of completion of all contractual obligation of the supplier, including warranty obligations. The Performance Security will be forfeited and credited to the University account in the event of a breach of contract by the contractor. It will be refunded to the contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract. Failure of the successful bidder to submit the performance security 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 on same rate or call for new bids.
- **16. Prices and Taxes:** Prices quoted should be 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.
  - I. Elements of Price: Where the price has several components such as the price of the goods, cost of installation and commissioning, operators' training, and so on, bidders should furnish a cost break-up indicating the applicable prices and taxes for each of such components along with the overall price.

Currency: domestic tenderers are to quote and accept their payment in Indian currency; Indian

- agents of foreign suppliers are to receive their agency commission in Indian currency; costs of imported goods, which are directly imported against the contract, may be quoted in foreign currency (currencies) and will be paid accordingly in that currency; and the portion of the allied work and services, which are to be undertaken in India (like installation and commissioning of equipment) are to be quoted and paid in Indian currency.

  Prices should be FOR –Central University of Rajasthan and for imported equipment supplier will be responsible for custom clearance and forwarding the same up to university campus. Custom Duty will be reimbursed on actual basis, after submission of the evidence in original. All prices specified herein include all charges for, but not limited to, inspection, and packaging. Prices set forth shall be inclusive of applicable taxes until and unless specified in the schedule. University is entitled for concessional GST @ 5% as per Notification no. 45/2017-Central Tax (Rate) dated 14-11-2017 & Notification No. 47/2017-Integrated Tax (Rate) dated 14-11-2017. This University is also registered with DSIR vide TU/V/RG-CDE(1115)/2018 dated 12-10-2018 for availing
- **17. Price Fall Clause:-** If at any time prior to delivery of the equipment/stores, the bidder/supplier reduces the sale price of such equipment stores 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 equipment/stores being supplied after the date of coming into force of such reduction, the price of equipment/stores shall stand corresponding reduced.

#### 18. Terms of Payment:

concessional Custom Duty.

II.

a. Terms of payments for Domestic Goods: 80% of the total payment shall be released on submission of proof of delivery of complete equipment/stores (stores/consignee receipt), inspection report and on certification of satisfactory installation of the equipment at the consignee's premises and after "ensuring verification of the Performance Security" @ 5% of the Purchase Order value. Balance 20% of the payment shall be released upon successful Test run of the equipment at least for a month and 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.

#### b. Documents for Payments of Domestic Goods:

 Supplier's Invoice indicating, inter alia description and specification of the goods, quantity, unit price, total value;

- ii. Packing list;
- iii. Insurance certificate, if applicable;
- iv. Railway receipt/consignment note;
- v. Manufacturer's guarantee/warranty certificate;
- vi. Inspection and installation certificate duly signed by the service engineer and university official; and
- vii. Any other document(s) as and if required in terms of the contract.
- viii. Copy of cancelled check/NEFT detail for making online payment.

#### c. Terms of payments for Imported Goods:

I. An irrevocable letter of credit (L/C) for 100% of the value of the imported equipment/stores (excluding the value of the Indigenous / Indian equipment / stores, if any) shall be established on submission of the acknowledgement of the order by the successful bidder stating the country of origin and port of shipment, submission of Performance Security @ 5% of the Purchase Order value, four copies of the Performa invoice and confirmed Letter of Credit (LC) opening details.

It shall be the responsibility of the bidder to ensure that all the requisite documents are provided to the purchaser including the Performance Security in original for appropriate denomination and period on priority basis, so as to ensure opening of LC on time.

Out of this, 80% of the value of the imported equipment/stores will be paid against inspection certificate (where applicable) and shipping documents to the Principal through L/C. Balance 20% will be released within 30 days after due certification by the Purchaser/Institute for successful commissioning of the equipment at the premises and also, after ensuring that the 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.

- **II.** 100% via wire transfer or foreign DD after successful commissioning of the equipment at the premises and also, after ensuring that the 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.
- **d. Documents for Payments of Imported Goods:** Documents, which the supplier is to furnish while claiming payment, are specified in the Letter of Credit, but usually are:
  - i. Supplier's original invoice giving full details of the goods including quantity, value, and so on;
  - ii. Packing list;
  - iii. Certificate of country of origin of the goods to be given by the seller or a recognized chamber of commerce or another agency designated by the local Government for this purpose;
  - iv. Manufacturer's test certificate and guarantee;
  - v. Certificate of insurance;
  - vi. Bill of lading/airway bill/rail receipt or any other dispatch document, issued by a Government agency (like the Department of Posts) or an agency duly authorized by the concerned Ministry/Department, indicating:
    - a) Name of the vessel/carrier;
    - b) Bill of lading/airway bill;
    - c) Port of loading;
    - d) Date of shipment;
    - e) Port of discharge and expected date of arrival of goods; and any other document(s) as and if required in terms of the contract.
- **19. Insurance:** Wherever necessary, the goods supplied under the contract, shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the contract. If considered necessary,

insurance may cover "all risks" including war risks and strike clauses. The amount to be covered under insurance should be sufficient to take care of the overall expenditure to be incurred by the Procuring Entity for receiving the goods at the destination. Where delivery of imported goods is required by the purchaser on CIF/CIP basis, the supplier shall arrange and pay for marine/air insurance, making the purchaser beneficiary. Where delivery is on FOB/FAS basis, marine/air insurance shall be the responsibility of the purchaser.

- **20. E-Payments:** Bidders are required to enclose photocopy of cheque & NEFT Bank Details with tender /quotation to enable us to making payment through on line transfer.
- **21. Deduction of Income Tax, Service Tax and so on, at source from payment to suppliers**: This will be done as per existing law in force during the currency of the contract.
- **22. Refund from Supplier**: if the supplier, after claiming and receiving reimbursements for sales tax, excise duty, custom duty, and so on, from the purchaser, applies to the concerned authorities for refunds, on genuine grounds, of certain portions of such duties and taxes paid by it and receives the allowable refunds. Such refunds contain the purchaser's share also (out of the payments already made by the purchaser to that supplier) and that should be refunded to the University.
- 23. Delivery Period: The equipment should the delivered to Central University of Rajasthan and within a time period of 6 months from the date of LC opening and complete installation within 30 days after date of arrival. In case of indigenous purchase supply should be made within 30 days & installation be completed within next 15 days. 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 shipped or tendered, 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 installment 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.

- **24. 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.
- 25. Shipping, Packaging and Labeling: All Material purchased hereunder must be packed and packaged to ensure its safe delivery in accordance with good commercial practices 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/goods, 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.
- **26. 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.

- **a.** 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:
  - i. rescind the purchase/supply order as to such non-conforming Material;
  - ii. accept such material at an equitable reduction in price;
  - iii. reject such non-conforming material and require the delivery of suitable replacements
- **b.** 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.
- c. 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.
- 27. Invoicing / Payments / Set-Offs: After completion of supply against the 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.
- **28. 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.
  - **a. Technical Bid:** Technical bid should contain information regarding the company/firm registration details, Authorization letter, Clientele list (List of Users), Performance certificate from clients, self-declaration for not black listed, business turnover, experience and other details of the firm to judge the suitability of the bidder. Bidder must ensure the following conditions while going for the bidding:
  - I. SPECIFICATIONS: Specifications are basic essence of the product/contract. It must be ensured that the offers must be strictly as per our specifications mentioned at **Annexure-A1 to Annexure A-3** at technical specification section. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer and the specifications mentioned in the quotation must be reflected /supported by the printed technical leaflet/literature. Therefore the model quoted invariably be highlighted in the leaflet/literature enclosed with the quotation.
  - II. Non-compliance of the above shall be treated as incomplete/ambiguous and the offer can be ignored without giving an opportunity for clarification/negotiation etc. to the quoting party.
  - III. OEM should be internationally/Nationally reputed Branded Company.
  - IV. Copy of mandatory test reports, national testing/reliability and endurance test reports etc., certified or conducted at the manufacturing site, granted by the bureaus/quality control departments/national testing laboratories.
  - V. A write up on service and maintenance capability, mitigation of risks or breakdown and replacement capability, with the escalation support matrix suggested for the University. Vendors must indicate their sales and support service center in India and their plan to address issues about services, maintaining minimum service inventory etc.
  - VI. Signed & Stamped compliance sheet of the technical specification of the offered equipment with technical printed literature must be enclosed with the technical bid in the prescribed format.
  - VII. Clientele list (List of the institutes/organizations, where the similar order has been executed during the last three years) and work done list. Supporting documents (couple of orders without any alteration/modification, copies of installation report and performance certificate) must be enclosed. Past Performance of the Vendors will be judged at the time of Technical Evaluation.

- VIII. Average Annual turnover of the bidder, for the last three successive years should be **four times** of the approximate cost of the equipment duly certified by the Chartered Accountants.
  - IX. Self-attested photocopy of annual turnover, IT clearance Certificate, Audited Balance Sheet, etc. for last three years.
  - X. 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.
  - XI. DD for Tender Fee & EMD amount as applicable.
- XII. University reserves the right to carry out a technical inspection and performance evaluation (benchmarking) of the offers, made by shortlisted vendors. The shortlisted vendors may be asked to come and give out presentation / demonstration.
- b. Short listing of Vendors: University will shortlist technically qualifying vendors and the financial bid of only these vendors will be opened. University reserves the right to decide whether the items being quoted are as per the requirement of the University and are of standard/leading brands in the market. University reserves the right to decide which offer best suits the requirement of the university. Further, after opening financial bids of the short listed tenders, if there is a discrepancy between word and figure, the amount indicated in words will prevail.
- **c. Price Bid/ Financial Bid:** Financial bid should contain price of the material required to be supplied as per Price Schedule *Annexure-B* as supplied by the University along with tender form, duly filled and signed by the authorized person.
- **29. Installation and Commissioning:** Free of cost at University. The OEM must ensure timely installation of the complete unit with necessary support to the indenters, as per details and lists to be made available by the Stores Section or the indenting Departments/Centre/Schools.
- **30. Conditional Offer** will not be accepted.

#### 31. 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. If the technical offer contains any price information the offer will be summarily rejected.
- c. 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.
- d. Unsigned tenders/bids, unattested corrections and over writing by bidders are also liable for rejection.
- e. Bids submitted without supporting documents as mentioned or required to submit with bids are liable to be rejected.
- f. 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 /liable the Quotation for rejection.
- **32. Liquidated damages for delayed supply:** If vendor fails to deliver any of or all products or does not perform the services within the period specified in the contract, the 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 stores at the agreed price for each week to maximum limit of 10% of the value of stores so undelivered. Once maximum is reached, the second party may consider termination of contract.
- **33. 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.
- **34. Cancellations of tender:** The University reserves Right to Accept any Bid and to Reject any Or all Bids: The Purchaser also reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

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

#### 35. Warranty:-

- a. Three year onsite comprehensive warranty (or as mentioned in the Technical specification) with the statement of availability of spares, Hardware, Consumables, Electronic Boards etc. for at least 8 years from the date of the installation of equipment, against any manufacturing defects and also give the warranty declaration that everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship, transportation hazards, and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specifications. During the warranty period, replacement of any part of equipment's or rectification of defects of works will be free of cost.
- **b.** Any deviation in the material and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order / contract and demonstrate at their own cost. The payments shall be made only after receiving the material in the required specifications and quality to the satisfaction of the University authorities.
- **c.** Downtime: During warranty period not more than 5% downtime will be permissible. For downtime exceeding penalty equivalent to 0.50% of the F.O.R. value of the equipment for every week or part thereof
  - may be imposed. Downtime will be counted from the date and time of the filing of complaints within the business hours of the tenderer.
- **d.** The Vendor shall warrants that any Material supplied hereunder shall conform to the generally recognized manufacturing and safety standards of the Vendor's industry as per Indian Standard Institution (ISI) or similar standard. The Vendor's specifications on performance as detailed in the Vendor's brochures, sales literature and other specifications as may be available to the university.
- **e.** Vendor should provide insurance up to the delivery point (on-site and not up to the nearest international airport) and until the time of installation.
- **f.** Vendor shall provide at least one preventive maintenance service per year during the warranty period.
- **g.** In addition to any other express or implied warranties, the Vendor warrants that the material furnished pursuant to this order will be
- **h.** Free from defects in design except to the extent that such items comply with detailed designs provided by the university; of merchantable quality and suitable for the purposes, if any, which are stated in the tender/quotation.

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.

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.

**36. Consumables/spares**: All hardware & software including drivers, device interface cards/network adaptor card must be pre-installed & pre-configured in the computer /equipment provided. Licensed version of system software should be provided in CD (with up-gradable version). if such system is also a part of supply.

Manual - Hard copies of instruction/operation/service manuals should be supplied. List of important Consumable/ Spares and parts having sufficient shelf life for trouble free operation of three years should also be provided.

#### **37. Training/installation:**

- a. Installation testing: suppliers of the instrument must provide free installation, commissioning and testing of the equipment in the laboratory.
- b. Comprehensive training of faculty & staff after installation should be provided, wherever deemed appropriate and an update in every six months (3-4 days) for the first two years and every year (1 week) for the next three years.
- c. On-site training to the graduate students after installation.
- **38. A.M.C.**: A separate annual maintenance contract will be executed after completion of the warranty period. Hence, bidders must quote price of AMC for next three year (year wise) after the warranty period. While evaluating the offers, the cost component towards maintenance of the goods for specified number of years may also be added in the evaluated tender value on overall basis to decide the inter se ranking of the responsive tenderers. On execution of the A.M.C. contract, performance security will be returned to the first party.
- **39. 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.
- **40. 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.
- **41. 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 Rajasthan.
- **42. 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.
- **43. One-time shifting and re-installation**: Instrument may need shifting and reinstallation. If needed one-time shifting and re-installation is to be done free of cost.

- **44.** The **OEM** (**Original Equipment Manufacturer**) should be an ISO-9000 or ISO-14001 certified company with due credits to energy conservation and green earth compliance. 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.
- **45. 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-305817. The Technical Bid will be opened on **14/09/2022 (at 03.00 P.M.)**

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.

Seal & Signature of Vendor

#### 5. TECHNICAL SPECIFICATIONS SECTION

Technical Specifications: The tenderer shall meet the respective minimum technical specifications for the item that is being bid for. Any additional features or specifications in excess of these minimum specifications will be appreciated. A set of desired additional features are mentioned along with the minimum technical specifications, wherever appropriate.

I / We the undersigned am / are ready to supply & install the following instruments along with all other accessories complete as mentioned below with accepting the terms and conditions which are enclosed with this order form and quote for the same

The technical specifications for the Instrument are being placed under this tender have been detailed in the "Annexure A-1 to Annexure A-3". This will also include all the components of the particular instrument / equipment that are being tendered for.

S. No.	Instrument/Equipment	Quantity
1.	HPLC-Inductively Coupled Plasma-Mass Spectrometry (HPLC-ICPMS) with accessories	01
2.	Single Crystal XRD	01
3.	Liquid Nitrogen Generation Plant	01

# Technical specification for LC-Inductively Coupled Plasma-Mass Spectrometry (HPLC-ICPMS) with accessories

#### **GENERAL INSTRUCTIONS:**

- Installation certificate will be issued only after satisfactory working of the instrument (Demonstration of all the modules) and onsite training at CURAJ, for faculty, staff and research scholars.
- The vendors may note that the technical specifications provided in following para are minimum to be mandatorily met by the systems quoted by them.
- The vendors should highlight and specify any additional functionalities of their system that enhance the capabilities of the system or the ease with which the user can process and analyze the data and provide information about the value addition from such functionalities.
- The vendor should issue an undertaking for the availability of spare parts for at least 10 years from the date of successful installation.
- The specification submitted by the vendor has to reproduce the same data during installation at CURAJ. In the absence of authenticated; satisfactory data as a proof for samples in the submitted tender, it may be considered as disqualified/cancelled.
- The vendors should provide a detailed list of places where similar instrument has been satisfactorily functional for at least 3 years along with the contact details of the concerned scientist/faculty/officer in-charge. They should also provide a letter of reference from such users.
- The vendors should have good support and service centers located in India and elaborate the proposed service modalities for CURAJ.
- The vendors also include rates in their offer for on-site operation by providing one full time specialized technical staff / personnel/operator for the smooth functioning of the machine / equipment, for three years and annual maintenance for 5 years. The annual maintenance cost (AMC)/ rate should be quoted year wise for 5 years. It should be quoted optionally for 3 and 5 years. The person should be a qualified graduate with working experience in handling of LC-ICP-MS or similar equipment whoever will be recruited for the on-site operation. The supplier should also provide adequate training to maximum persons. Annual training cum seminar with demonstration should be given with nominal charge or without charge for first 5 years.
- LC system should be compatible with the ICP-MS for the easier integration without affecting the performance.

Feature	Aspects
Purpose and	A latest model of LC-ICP-MS system having scan mode such as On mass and Mass shift
application	required for accurate and precise analysis of common trace element, heavy metals, rare
	earth elements, lanthanides and other toxic elements, metals at ppm, ppb and ppt level
	in environmental Samples in a single aspiration and single method. System should be
	capable of detecting and quantifying chemical species (speciation based on oxidation
	states of the metal/ analyte of interest). The system should also be capable of doing
	nanoparticle analysis with having suitable dwell time to avoid/skip of nanoparticles for
	detection. Instrument should have Collision and reaction capability using pure or
	mixture of gases. All of the specification mentioned below should be responded with
	the proof and mention if they are compiled and guaranteed in meeting with the
G 1	specifications.
Sample	System should be offered with automated software-controlled online Argon
Introduction	Gas Dilution accessory like AMS/HUMI/AGD and other mandatory accessories
	requires for achieving dilution of the aerosol up to or greater than 100x to
	handle the sample with > 20% TDS without liquid - liquid dilution. (No manual
	intervention will be accepted. Appropriate technical note/document should be
	enclosed in support of the claim and appropriate parts from the OEM should be
	mentioned in the offer).
	Humidifier should be offered for handling high matrix.      Contain the sold become and the sold because the sold becaus
	System should have appropriate Glass spray chamber with port to connect for  Assert Good dilution appropriate Glass spray chamber with port to connect for
	Argon Gas dilution accessory and oxygen line during organic solvent analyte.
	System should have high precision peristaltic pump with at least 3 channels     10 mall and 10 ma
	and 10 rollers.
	Sample introduction system assembly should be easily accessible for
	maintenance
	<ul> <li>System should be equipped with MFC/Electronic flow controllers for precise</li> </ul>

	control of variable gas flow rate for plasma, Auxiliary, dilution and Nebulizer
	gases.
	Sample introduction system should comprise of peristaltic pump, nebulizer  (Overther and attent), provided hereby and a second comprise of peristaltic pump, nebulizer  (Overther and attent), provided hereby and a second comprise of peristaltic pump, nebulizer
	(Quartz or better), spray chamber.
	• A peristaltic pump with >=10 rollers multi-channel (3 channels or more) which can support variable flow rates.
	<ul> <li>It must include quartz nebulizer as standard having high resistance to acids.</li> </ul>
	Integrated Peltier-cooled, temperature-controlled quartz spray chamber
	(factory fitted) is desirable with temperature range -10 to 200C.
Ion Source	Computer controlled RF generator operating between 27 MHz to 40 MHz ( any
and	one certified frequency) or better operating from 0.5 to 1.6 KW for automatic
Plasma	control and torch ignition, shutdown and system warm up.
	Vendor should ensure for RF generator and coil lifetime for at least 3 years
	without fail, For any failure vendor should replace the RF generator and coil
	free of cost to the institute within 3 years.
	System should have capability of Automatic shutdown of the plasma by the
	system after completion of analysis.
	<ul> <li>The plasma should be fully controlled through PC of Horizontal, Vertical and</li> </ul>
	sampling depth for maximum sensitivity and minimum polyatomic
	interference.
	The choice of either fixed or demountable torch design with at least 2.0-2.5
	mm injector should be available in system
7 6	Quartz torch
Ion focusing and extraction	Capable of removing all neutrals and photons from the ion path without
System	<ul><li>causing any damage to the optics</li><li>Sample, skimmer cones/extraction system should be easily</li></ul>
System	mountable/dismountable without venting out the system.
	<ul> <li>Vendor should guarantee the ion focusing and extractions system for 3 years of</li> </ul>
	operation. For any failure vendor should replace the ion focusing and extraction
	system free of cost to the institute within 3 years. If it's a consumable then 3 No.s
	of ion lens should be quoted.
Quadrupole	Quadrupole material: made of molybdenum or stainless-steel alloy rods and
System	operate at any frequency in between 2-3 MHz.
	• User definable/selectable resolution (0.3 to 1.0 amu) for the entire mass range
	7-275 amu.
	Quadrupole scan speed should not be less than 3000 amu/sec over the entire
Detector	mass range during the data acquisition at every mass.
Detector	<ul> <li>The EMT ion detector must be a simultaneous dual-stage discrete dynode electron multiplier, providing element concentration calibration over 10</li> </ul>
	orders of magnitude simultaneously in both Analog and pulse mode for higher
	and lower concentration respectively. Required hardware and software should
	be quoted.
	Minimum dwell time of 100 microsecond or less in pulse count and analogue
	mode.
Vacuum	The vacuum system must consist of a Two/Three/four-stage vacuum system
system	(split flow turbo molecular pump, turbo pump, external rotary pump, turbo
	pump backing) or as applicable as per the quoted model and hardware
	requirement to achieve adequate vacuum.
	The pumps should be a fume and acoustic free system should be back filled by
	inert gas in case of vacuum failure or as should have capability to sustain the
Cell	<ul> <li>vacuum in event of failure.</li> <li>The system must be able to operate in 3 modes: STD (no gas), KED (collision)</li> </ul>
technology	and Reaction mode (Reaction by pure or mixture of gases)
Johnson	<ul> <li>System should have Collision and reaction capability using He as collision gas</li> </ul>
	and H2, O2, CH4 / NH3 as reactive gases in pure form using cell and separate
	or universal gas channel to ensure both collision and reaction mode runs
	simultaneously.
	System should be capable to do analysis in Standard, Collison mode and
	Reaction mode simultaneously.
Performance	Detection limit:
	Low mass: 1 ppt or better Li or Be
	Mid mass: 0.5 ppt or better Y or In
	High mass : 0.5 ppt or better U

- Sensitivity (In MCPS/ ppm of element):
   Low mass > 50 Mcps/PPM or Be > 5 Mcps / PPM
   Mid mass > 90 Mcps/PPM
   High mass > 70 Mcps/PPM
   Other parameters
- Oxide ratio (CeO/Ce): ≤3%
- Doubly charged ratio: Ce2±/Ce (%): ≤3%
- Short term stability: <3% and longtime stability of <4%</li>
- Isotope ratio precision: Ag107/Ag109 < 0.1%
- Abundance sensitivity at 5X 10-6 at low mass side and 1X 10-7 at high mass side
- Best resolution, sensitivity and detection limit of the important lanthanides, metals and heavy metals should be provided separately.

#### Software

The software must be capable of running in Windows 10 on a 64-bit operating system. The software must have functions for automated system startup, shutdown, optimization and instrument tuning for optimum performance. User-Friendly software that guide users through method and sequence development, and method templates for rapid development of commonly used methods. Editable interference correction equations feature should be available. Calibration for multi-element external calibration, method of standard additions, and quantitative analysis, semiquantitative analysis feasibility should be programmed in software. The software should enable isotope ration isotope dilution study. Fully automated instrument initialization (start-up) routine, including instrument stabilization time, plasma X/Y position adjustment, mass calibration, and quadrupole resolution. Simultaneous real-time graphical display of signal as full mass scan, segments of mass scan, and signal response vs time for multiple isotopes or ratios.

- Fully automated software-controlled adjustment of the position of torch with independent movements in all three X, Y and Z directions is desirable.
- Four or more software The ICPMS must have software-controlled RF generator operating in between 25 to 40 MHZ (any one internationally certified frequency).

The RF power range of ICPMS should be operating at range 500 to 1600W or better for automatic control of torch ignition, shutdown and system warm up.-controlled gas mass flow controllers for control of plasma gas lines (nebulizer, plasma, auxiliary, makeup/dilution gas flow) is desirable.

#### Consumables (Excluding default items that comes with the system)

- Ni Sample cone-3 Nos.
- Ni Skimmer/hyper skimmer Cone-3 Nos.
- Cyclonic Spray Chamber-3 Nos.
- Quartz Torch with injector -3 Nos.
- Nebulizer:3 Nos.
- Peristaltic Pump Tubing for samples uptake- 30 Nos.
- Peristaltic Pump Tubing Drain- 30 Nos.
- Auto sampler uptake Probe-3 Nos.
- Pump oil for 3 years of operation
- -Torch Platinum shield/ plasma lock/plasma grounding devices as applicable as per the quoted model- 3 nos (Must be quoted by all vendors)
- RF coil/Lumi coil/ load coil 3 nos. as applicable as per the quoted model (Must be quoted by all vendors).
- -Quartz bonnet for torch- 3 nos. as applicable as per the quoted model
- water filter for recirculatory- for 3 years of operation
- Screw, spacer and O-ring for cell 3 sets
- Gasket for Sampling cone- 3 Nos.
- Tubing for spray chamber drain 3 sets
- Necessary suprapure acids and solvents should be provided with the instrument e.g. Nitric acid, Perchloric acid, Hydrochloric acid, hydrofluoric acid etc.

#### Others

The ICP-MS system should have one or more cones/interface should be to achieve all desired performance specifications of the instrument.

• Cones system should be outside the vacuum system to reduce time.

The ion focusing system capable of removing all neutrals & photons from the ion path without causing any wear and tear to any part of the optics.

: ICP-MS shall be capable of three modes of operation: Standard Mode, Collision Cell Mode and Reaction Cell to utilize a wide variety of gases like H2 or O2 or NH3 (Min one reactive gas should be offered) as per hardware requirement. The system should run Standard mode, KED mode, and Reaction mode simultaneously in single run. Fully automated and software-controlled change over between standard, collision and

#### reaction modes should be available to run in one single method without any manual intervention. One gas channel for He and Another gas channel or universal gas channel for reactive gas should be must along with system along with s/w controlled Mass flow controller. • The mass range should be from 7-275 amu or better. Compatibility of parts (particularly tubing, sample holder, nebulizer, LC column etc.) against Hydrofluoric Acid and Suprapure Nitric acid is mandatory. **Essential** Refrigerated chiller: Imported Coolant based from OEM. Accessories Refrigerators for storing and preserving samples 350 L Gas filters, Gas cylinders and appropriate gas lines, connectors, valves and control systems for these. 20 KVA UPS with a backup time for 30 mins Exhaust system Appropriate windows-based computer system with 24-inch monitor and a laser printer. Wireless keyboard and mouse are essential. Reference standards for soil air and water samples as well as biomaterials Multielement standard solution. (1,000 μg/mL: Ag, Al, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, In, K, Li, Mg, Mn, Na, Ni, Pb, Sr, Ti, Au, Zn). Hg separate std suitable mixed internal standards Gas cylinders with regulator (4 Argon, 1 Helium, 1 oxygen, 1 hydrogen, 1 methane/ ammonia as per hardware requirement and to comply the application mentioned)32 Gas purification panel for Argon, He, Reactive gases and automated gas manifold for argon should be quoted. Computer/ controller for the LC-ICP-MS system and database management with higher and latest configuration. Complete accessory and set up for nano particle analysis with standards. **HPLC Pump** Bio-Inert HPLC Pump with quaternary pump. HPLC should be provided with Module and Pump, Autosampler, Degasser, Column over (Heat and cool) and switching related parts valve. Sample handling capacity by autosampler should be: 90 or more nos. of 1.5 m1/2 ml sample vial. 500 Nos. of 1.5 m1/2 ml sample vials with cap and septa should be offered. Sample injection capability: Minimum 0.01 µl, Maximum 80μl in increments of 0.01 μl. Manual injection should be possible without any difficulty. Safety features like leak sensor and automatic rack and vial recognition. Carryover: 0.004% All such parts as mentioned above should not leach the metals and parts should be resistant and highly compatible to HF and HNO3 acids. Appropriate chromatography software should be provided for speciation analysis. Columns for important heavy metals- e.g. arsenic and chromium speciation should be provided. Colums should cover the metal speciation of all important heavy metals, U and lanthanides. Microwave Microwave Digester system for sample Prep:-Digestion 1. System should be with total power of 1200 watts or more System: 2. Microwave cavity should be 25Ltr or more 3. System should be made of stainless steel with PTFE coating 4. There should be no transparent window in the system's door due to safety reason 5. System should be supplied with control panel with TFT display & software and controller should be able de-attach also 6. Rotor should be quoted with at least 50 slots or more 7. 6 vessels of TFM-PTFE should be quoted with below specs-Vessel size - 100ml or more Vessel's temp - 300 degree or more Vessel's pressure - 25 bar or more 8. Quote IR/contactless temp sensor to detect temp of each vesse 9. Suprapure Nitric Acid, Hydrochloric Acid, HF -5 L each. All other accessories for the HPLC including standards, reference material for metal speciation in biological and soil samples, additional column etc. should be provided. Water purification system of ICP-MS Grade level to be provided with the essential Water **Purification** warranty and maintenance of 3 years. Water Purification System :- 16X2 LCD, RO Flow rate 10 to 15 ltr/Hours, Product water resistivity 6.0Mohm cm to 18.2Mohm cm System

LC-ICPMS Warranty along with UPS, MDS, Water purification System and technical personnel	<ul> <li>The supplier should provide comprehensive warranty for 3 years for all components without any additional cost to the purchaser form the date of satisfactory commissioning of equipment. Components include all parts (accessories/ consumables / spares parts) of the equipment.</li> <li>All accessories/ consumable/ spare parts replaced shall be from OEM/ Supplier of same model or higher version. If within a period of three years after commission, any accessory/ consumable/ spare part is proved to be defective then such product shall be replaced by the manufacturer / supplier. Such replacement shall be sole obligation of manufacturer / supplier, including payment of charges for freight delivery, custom duty and transportation, if any.</li> <li>In case of breakdown during the warranty period, a competent Service Engineer of thesupplier should make as many visits as are required to rectify the problem and replace the faulty parts, without any liability of cost. Service response time must be less than 72hours. Otherwise the warranty period shall automatically be extended by the time taken to rectify the defects.</li> <li>The service engineer should come for two preventive maintenance in every year.</li> <li>Annual calibration of the equipment shall be a part of the warranty. It shall also be mandatory to perform calibration after every major repair/ breakdown</li> <li>Post warranty: Comprehensive AMC for seven years should be quoted separately including third party items. In case, vendor provides the warranty, the principal should certify (authenticate) the extended warranty. Appropriate documents must be attached along with the quotation in this regard.</li> <li>The vendors also include year wise rate for full time specialized technical staff / personnel/operator for the smooth functioning of the machine / equipment, for three years and should be quoted optionally. The person should be a qualified graduate with working experience in handling of LC-ICP-MS or similar equipment.</li> </ul>
Country of Origin and conditions	Vendor needs to submit at least 3 Performance Certificate from their user of the quoted model and should facilitate the demonstration of the equipment quoted during technical evaluation as & when asked by buyer/customer.
	Vendor should submit at least 2-3 Research papers or articles or Application Notes or technical notes. These all should be available on public domain. Application Lab in India to support method development and trouble shooting.

## **Technical Specifications**

## Single Crystal XRD.

Sl.	Single Crystal XRD.
No.	Technical Specifications:
1	X-Ray generator
1	Technical Specifications:
	Source type: Mo Kα sealed dual Micro focus X-ray source with Copper & Molybdenum radiation
	with a power output of 50W or more. Completely Air-cooled X-ray source (without any external
	source) will be preferred to achieve stable intensity and long tube life with very minimum or no
	maintenance.
	Two extra X-ray tubes of each source will be required. Note these tubes will be kept with vendor
	and request as and when needed.
	Effective focus size: Not more than 100 μm at the crystal position
	Brilliance: The minimum beam intensity at the sample should be ~1010 ph/(s-mm2) or higher at
	beam Divergence ≤ 7.5 (mrad) for Cu and ~ 109 ph/(s-mm2) or higher at beam Divergence ≤ 5.0
	(mrad) for Mo.
	Stability: 0.01% or less (under power supply variation, under long-time use).
	Maximum voltage output: 50 kV (Cu and Mo).
	Maximum current output: 1 mA (Cu and Mo).
	System should have software controlled fully automated divergence slit. Continuously variable
	divergence slit to optimize data collection for long unit cells. Beam alignment kit including PIN
	diode should be provided.
	Vendor must quote their latest generation X-ray source. The X-ray source(s) should comply with
	statutory safety regulations. Fully X-ray protected enclosure as per international safety norms. The
	X-ray sources should be covered by 5 years warranty.
2	X-ray shutter, Rotary shutter
	Turbo molecular pump, diaphragm primary pump.
	Automatic software-controlled wavelength switching of X-ray source target material and focusing
	optics.
	Electronically controlled brightness of cabinet and sample lighting.
	Radiation protection cabinet. Enclosure doors must contain locks to ensure safety and must be
	linked to the shutter
3	Goniometer
	Technical Specifications:
	Type: Kappa, 4-axis goniometer
	Movement of $\phi$ , $\omega$ , $\chi$ , $2\theta$ and the crystal-to-detector distance should
	Motorized. (In case of desktop beamline type vertical $2\theta$ , $\chi$ and the
	crystal-to-detector distance must be motorized)
	Crystal-to-detector distance: Minimum of 31mm to Maximum of 280 mm or better
	Sample illumination unit must be supplied.
	Goniometer must be compatible with automated crystal centering with the control software
4	Goniometer with sphere of confusion less than ten micrometer, and telescopic two-theta arm.
4	Video system for crystal viewing
	Color CCD camera with lens system
	LCD monitor for crystal display
	Video crosshair and optical grid for crystal centering and monitoring.  LED illumination
	HD Video quality
5	10x Magnification  Detector
ی	Type: Noise-free, high-resolution hybrid photon-counting pixel-array detector. Should convert X-
	ray directly to electrons without any intermediate step. High signal-to-noise detector with wide
	dynamic range and fast readout.
	Active Area: Minimum of the order of 77 x 77 mm2 or any equally performing detector without
	compromising data collection time and the quality of the intensity data.
	Should be tuned to Cu and Mo K alpha radiation
	Readout time: continuous readout with less than 04 ms (Must be suitable for shutter-less data
	collection) / 0 ms (in zero dead-time mode). Power consumption: 70 W. Purging gas: Nil
	Count rate: >1 x 106 cps/pixel, maximum frame rate: 100 fps.
l	Count rate 1 x 100 cps/pixel, maximum rame rate. 100 ips.

Point-spread function: ≤1 pixel Module cooling: air cooling Pixel size: 100 µm x 100 µm or better. The detector should be covered by five years warranty. 6 **Crvo-System** Available temperature range: 80K to 400 K (controlled by software) Liquid nitrogen consumption: 0.6 liters/hour at 5 liters/minute gas flow, 1.2 liters/hour at 10 liters/minute gas flow Temperature stability: 0.1K Cool down time to 100 Kelvin: 20 minutes or less than that Auto pressure regulation: Must be there Line dryer units: 2 nos Must include Cryo-stream Controller, Gas Pump, magnetic auto refill system and Dry Air Unit Dewar vessel for Cryo system capacity 60L 1 7 Software The software must be fully automated from data collection through data reduction and processing for small molecule and protein crystallography. The software should be capable of parallel processing with data collection, integration of diffraction and solution of 3D structure. The software should provide fast and fully automatic structure solution and refinement during data collection of small molecules as well as for protein crystals. It should contain options, for instance, reciprocal space viewer, twin indexing, measurement of powder pattern, modulated structure. No public domain software is acceptable. The software should come with a multi-user, multi-site license with free continuous upgrades included as and when it happens. Software to run the goniometer and detector. 8 Microscope for crystal mounting Polarizing optical stereomicroscope with reasonable objectives to facilitate the mounting of micron level crystals. LED LAMP without Shutter and 10X eyepiece. A HD color camera with a minimum 5 megapixel resolution or better. 9 UPS for the entire system Suitable UPS with minimum 1 hours of battery backup must be supplied. PC to control detector and goniometer 10 **Technical Specifications:** Monitor: 27 inch LED; Intel core i7-8700 **RAM: 16 GB** Processor: 6 cores with 3.3 GHz clock speed Video RAM: 16 GB (unbuffered) Hard-drive: 256 GB SSD and 2 TB HDD DVD reader and writer Operating system: Windows 10 professional with 64 bits a. Multi-purpose (with scanner) Laser color printer b. USB Keyboard c. USB Optical Mouse 11 Other Accessories and consumables **Details of Spec Item** Qty. **Goniometer Heads** 2 No's 3 Goniometer Base Type Package of 20 1 Goniometer Base Type Package of 40 1 **B3-R** Adjustable Crystal 5 Pack 10 Mount Mounted Cryo-Loops 0.05-0.1mm 1 (18mm, 25 pack) **Mounted Cryo-Loops** 0.1-0.2mm 1 (18mm, 25pack)

Mounted Cryo-Loops

Crystal Cap

0.2-0.3mm

Crystal Cap

(18mm, 25pack)

without Vial (60

1

1

		pack)		
	Quartz Capillary Size 0.3mm	25 pack	1	
	Quartz Capillary Size 0.5mm	25 pack	1	
	Quartz Capillary Size 0.8mm	25 pack	1	
	Parabar 10312 100ml	Oil Based Cryoprotectant	3	
	Combo Oil Pack (Parafii,Al's, & Sillicon oil)	250ml of each	5	
	Capillary Sealants : Duco cement 29.5ml	Duco Cement	1	
	Capillary Wax	40 G pack (Aprrox)	2	
	Four Colour Mounting Clay	16oz pack each color	5	
	Test Crystals	1	1	
12	Power Supply - Single ph	ase or three phase a	s per Ind	ian power supply.
13		should have supplie		3 systems in India for similar configuration
14	Additionally, one week manufacturer facility has	rration at site with dedicated applica to be provided. One	tion train	onal training for a period of one week. ning by application specialist from the lly trained person is required continuously
15	for one year for operating  Warranty	the instrument.		
	comprehensive warranty to The warranty should be including all accessories at All accessories/spare part. If within a period of 5 year then such product shall be sole obligation of the Manufacturer/supplier, in transportation, if any for Conference of the supplier should man faulty parts, without any life Service response time must days for major breakded automatically be extended The two maintenance viengineers are required. After completion of 5 Year AMC.	to be quoted. in comprehensive and spare parts, etc. is replaced shall be furs after commissione replaced by the manufacturing payment URaj. Iwan during the warke as many visits as ability of cost to CU is to be within 3-5 working the time taken the sits every year (well as the working the time taken the sits every year (well as the comprehensive to the sits every year (well as the sits eve	manner from OEM n, any acc anufactur of charge ranty per s are requ Raj . rking days angeover; o rectify t	means that it covers the whole system, /supplier of same model or higher version. ressory/spare part is proved to be defective rer/supplier. Such replacement shall be the res for freight delivery, custom duty and riod, a competent/suitable Service Engineer rired to rectify the problem and replace the res for small issues and within 10-14 working restored to the warranty period shall red defects. rewarranty period) by authorized service received to the competent of the warranty period shall red defects.
16	offered.			n at least three years license have to be
17	prompt service support all system. The service must be	ong with number of be very prompt in ca	service e ase of any	nstrate the service set up in India for ngineers specially trained on the offered problem regarding the SCXRD.
18				tion has to be quoted (locally).
19	installed in last financial y	ear.		SCXRD system and list of SCXRD machine
20	instruction sheets must be system model should pr	es and Instruction S e supplied in Englisl referably comply v	heets: All n for servi with the	the manuals including circuit Diagrams and ice engineer's reference. The offered SCXRD latest machinery directive, for electrical lly CE compliant guidelines (or equivalent).

## **Technical Specifications**

## LIQUID NITROGEN GENERATION PLANT

Sl. No	Technical Specificati	on of the Liquid Nitrogen Generation Plant
1	Production Capacity	At least 2.5 usable liters / hour (60 LPD) at atmospheric pressure
2	Purity	>98% or better
3	Storage Vessel Pressure	0.3 to 5 bar
4	Restart after power failure	Restart after power failure: Auto-restart and resume production after any period of power resumption
5	Storage Capacity and portable Dewar flask	At least 200 Lit. with level, pressure sensors & display and more than one port for connecting vacuum jacketed delivery/transfer lines. Storage vessel should also be fitted with all standard safety and required accessories. Dewar vessels of 20L capacity 2 Nos and 10L capacity 2 Nos are required.
6	External Cooling Water supply	System Integrated Closed Loop Water-Chiller.
7	Space Consumption	The advised plant room size should not be more than $6m \times 6m \times 6m$ (l x w x h)
8	Maintenance Interval	Maintenance Interval : At least 4000-6000 hours of operation or one year whichever is earlier
9	Operation and Control	System should be fully automatic and system should switch off as liquid nitrogen tank fills up
10	Nitrogen Gas Separation	Separation through efficient inbuild PSA System. This should meet the requirement of nitrogen liquefier of 60 LPD
11	Nitrogen Liquefaction	System should be with latest technology like G.M cycle cold head based or any other proven technology
12	Nominal Operating Conditions	Temperature 5-45°C, Voltage (3 phase) :415V ±5%, Frequency – 50Hz ±3%.
13	System Diagnostics	Should be system integrated with visual display.
14	Noise Level	Should be less than 75 dB
15	Warranty	Offers must be with Three years of onsite standard warranty.
16	Additional Accessories	Additional Dewar vessels of 20L capacity 10 Nos and 10L capacity 10 Nos need to be quoted separately.
17	Comprehensive AMC	Comprehensive AMC for the next three years after completion of stipulated warranty period, which includes consumables, and any other spare parts may be quoted separately

## **Special Condition:**

The vendor should agree for a one-time relocation and re-installation of the system within the CURAJ premises.

#### (7) TENDER FORM

#### (Techno Financial UN priced Bid)

Tender No	
То	
The	

Dear Sir,

- 1. I/We hereby offer to supply the items as listed in the schedule to this tender hereto/portion thereof as you may specify in the acceptance of Tender at the price given in the said Schedule and agree to hold this offer open for a period of 180 days from the date of opening of the tender. I/we shall be bound by a communication of acceptance issued by you.
- 2. I/We have understood the Instruction to bidders and Conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly examined the specifications quoted in the Schedule hereto and am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.
- 4. The following have been added to form part of this tender.
  - a) Details of items quoted for, as per instructions provided in the schedule of requirement.
  - b) Schedule of requirements, quoting the make only duly signed and stamped (without indicating price)
  - c) Copy of PAN.
  - d) Copy of last audited balance sheet.
  - e) Copy of Valid Central/State sales tax/GST registration certificate.
  - f) Proof of manufacturing Unit.
  - g) Statement of deviations from financial terms & conditions, if any.
  - h) Manufacturer's Authorization Certificate on their letter pad.
  - i) Technical Specifications Compliance statement along with original Boucher / literature.
  - j) Any other enclosure. (Please give details)
- 5. We undertake to execute all orders which have been placed to meet emergent requirements on priority basis.
- 6. Certified that the bidder is:
  - a) A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

ΩR

b) A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney.

OR

- c) A company and the person signing the document is the constituted attorney.
  - (NOTE: Delete whatever is not applicable. All corrections/deletions should invariable be duly attested by the person authorized to sign the bid document).
- 7. We do hereby undertake that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.

(Signature of bidder)
Dated this day of
Address
Telephone:
FAX
E-mail
Telephone:

Company seal

Yours faithfully,

## (8) Tender Form (Priced Bid) Part B

To The	
Ref: Tender No, Dated	
Sir, Having examined the bidding documents and having submitted the technology, we, the undersigned, hereby submit the priced bid for supply of goods of requirements and in conformity with the said bidding documents.	
We hereby offer to supply the Goods/Services at the prices and rates mentioprice.	oned in the enclosed schedule of
We do hereby undertake that, in the event of acceptance of our bid, the sumade as stipulated in the schedule of requirement and that we shall perform	,
The prices quoted are inclusive of all charges net F.O.R University. We Financial Bid as required by you. This includes:  i. Price Schedule as per schedule of requirement.  ii. Statement of deviations from financial terms and conditions We agree to abide by our offer for a period of 180 days from the date fixed frand that we shall remain bound by a communication of acceptance within the	s. or opening of the bid documents
We have carefully read and understood the terms and conditions of the bundertake to supply as per these terms and conditions. The Financial Deviation the statement of deviations from financial terms and conditions.	
Certified that the bidder is: A sole proprietorship firm and the person signing the bid document is the so attorney of sole proprietor,	le proprietor/ constituted
Or A partnership firm, and the person signing the bid document is a partner of t refer to arbitration disputes concerning the business of the partnership by viagreement/by virtue of general power of attorney,  Or	
A company and the person signing the bid document is the constituted attorn (NOTE: Delete whatever is not applicable. All corrections/deletions should in person authorized to sign the bid document.)  We do hereby undertake that, until a formal notification of award, this bid, to acceptance thereof, shall constitute a binding contract between us.	nvariably be duly attested by the
	Signature of Bidder
] ]	Full Address: Fax No. E-mail: COMPANY SEAL

## (9)Price Schedule

E.M.D	
D.D. Details	
Bank Name	
Date	

Item No.	Item Name	Basic Price	Taxes and duties (if any) with rate & details	Delivery charges Other charges (if any)	Total Price F.O.R.at Central University of Rajasthan. All inclusive
1					
2					
3					
4					
5					
6					
7					

## Total No. of Item(s) quoted\_\_\_\_\_

## Seal and Signature of the bidder

S. No.	Item Name	Rate of AMC (For 1 <sup>st</sup> year)	Rate of AMC (For 2 <sup>nd</sup> year)	Rate of AMC (For 3 <sup>rd</sup> year)

Seal and Signature of the bidder

#### (10) FORMAT OF PERFORMANCE BANK GUARANTEE

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/-

..... Only)

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.

WHEREASM/s, having it's 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 of—Central University of Rajasthan, , Kishangarh (hereinafter called "CURAJ") P.O. No. CURAJ / Dated. 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(Rupeesonly).
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
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 theBank 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
5. We, the
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 up to 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

2. Bank guarantee shall be valid up to	
3. We are liable to pay the guaranteed amount or part thereof under this bank guarantee only and only serve upon us a written claim or demand on or before	if you
Dated: Signature & Seal of th	e Bank

Note: The above format contains specific clauses and expressions. The seclauses 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.

## (11) FORMAT FOR MANUFACTURER'S AUTHORIZATION LETTER TO AGENT

## (On letter head)

Ref. No.	Date:
To	
The Registrar,	
Central University of Rajasthan,	
Bandarsindri, Distt. Ajmer,	
Rajasthan – 305817	
Sub.: Tender for Supply & Installation of Laboratory Equipme	<u>nt</u>
Dear Sir,	
We,, who are established and reputed	manufacturers of, having
factory at,	hereby authorize
M/s.	(name & address of Indian
distributor / agent) to bid, negotiate and conclude the order w	
We shall remain responsible for the tender/ Agreement nego	otiated by M/s, jointly
and severely.	
An agency commission of % included in	
We hereby extend our	r full guarantee and warranty as per the terms
and conditions of tender for the goods offered for supply again	st this invitation for bid by the above supplier.
1	
2	
(Specify in detail manufacturer's responsibilities)	
The services to be rendered by M/s	are as under:
1)	
2)	
(Specify the services to be rendered by the distributor / agent)	
In case duties of the Indian agent/distributor are changed	or agent/ distributor is changed it shall be
obligatory on us to automatically transfer all the duties and ob	ligations to the new Indian Agent failing which
we will ipso-facto become liable for all acts of commission of	or omission on the part of new Indian Agent/
distributor.	1 3 7
Yours faithfully,	
[Name & Signature] for and on behalf of M/s	[Name of manufacturer]

## (12) <u>DECLARATION REGARDING BLACKLISTING / DEBARRING FOR TAKING PART IN TENDER.</u>

	Manufacture / Partner(s)/ Authorized Distributor /agent of M/S.
	hereby declare that the firm/company namely
	has not been blacklisted or debarred in the past by Union /
State Government or or	rganization from taking part in Government tenders in India.
Or	
	Manufacture / Partner(s)/ Authorized Distributor / agent of M/s hereby declare that the Firm / company namely
	was blacklisted or debarred by Union / State
Government or any Or	ganization from taking part in Government tenders for a period of
years w.e.f t	to The period is over onand now the firm/company is
entitled to take part in	Government tenders.
will be rejected / cance	e the above information found false I $/$ we are fully aware that the tender $/$ contract elled by the Central University of Rajasthan, and EMD $/$ SD shall be forfeited.
	lition to the above, Central University of Rajasthan, will not be responsible to pay the / partially completed work.
Name	_
Address	_
Attested:	
(Public Notary / Execut	rive Magistrate)

#### (13) CERTIFICATE OF GUARANTEE/WARRANTY

I/We certify that the guarantee/warranty shall be for a period of 36 months (as applicable) starting from the date of satisfactory installation, commissioning and handing over of the equipment and of the works conducted therewith covered under the Supply order in working order. During the guarantee/warranty period, I/we shall provide free "after sale service" and the replacement of any part(s) of the equipment or rectification of defects of work of the equipment will be free of cost. The replacement of the parts shall be arranged by us, at our own cost and responsibility. We undertake that the above guarantee / warranty shall begin only from the date of satisfactory and faultless functioning of the equipment for 60 days at University premises. The benefit of change in dates of the guarantee / warranty period shall be in the interest of the user/your organization.

During the warranty period, we shall provide at least 02 preventive maintenance visits per year.

Uptime Guarantee: During the guarantee/warranty period, we will be responsible to maintain the equipment in good working conditions for a period <u>347 days</u> (i.e. 95% uptime) in a block of <u>365</u> days.

- All complaints will be attended by us within 2 working days of receipt of the complaint in our office.
- In case there is delay of more than 2 days in attending to a complaint from our side then you can count the number of days in excess of the permissible response time in the downtime. The above said response time of 2 days for attending to a complaint by us will not be counted in the downtime.
- Penalty: We shall pay a penalty equivalent to 0.50% of the FOB value of the equipment for every week or part thereof delay in rectifying the defect.

**Note:** The right to accept the reason(s) for delay and consider reduction or waive off the penalty for the same shall be at the sole discretion of University.

We certify that the equipment being/quoted is the latest model and that spares for the equipment will be available for a period of at least 8 years and we also guarantee that we will keep the organization informed of any update of the equipment over a period of 8 years.

We guarantee that in case we fail to carry out the maintenance within the stipulated period, University reserves the right to get the maintenance work carried out at our risk, cost and responsibility after informing us. All the expenses including excess payment for repairs/maintenance shall be adjusted against the Performance Bank Guarantee. In case the expenses exceed the amount of Performance Bank Guarantee, the same shall be recoverable from us with/without interest in accordance with the circumstances.

We shall try to repair the equipment at University premises itself. However, the equipment will be taken to our site on our own expenses in case it is not possible to repair the same at University premises. We shall take the entire responsibility for the safe custody and transportation of the equipment taken out for repairs till the equipment is rehabilitated to the University after repair. Any loss of equipment or its accessories under its charge on account of theft, fire or any other reasons shall be at our sole risk and responsibility which will be compensated to University for such losses.

We undertake to perform calibration after every major repair/breakdown/taking the equipment for repair out of University premises.

In case of extended guarantee/Warranty, we undertake to carry out annual calibration of the equipment.

We guarantee that we will supply spare parts if and when required on agreed basis for an agreed price. The agreed basis could be an agreed discount on the published catalogue price.

We guarantee to the effect that before going out of production of spare parts, we will give adequate advance notice to you so that you may undertake to procure the balance of the life time requirements of spare parts.

We guarantee the entire unit against defects of manufacture, workmanship and poor quality of components.

Signature of Bidder

#### (14) Technical specifications compliance Sheet

- 1. The technical compliance bid must be in this sheet only, otherwise is should be assumed that bidder is not able to offer technically desired product. Information provided elsewhere or in different form will not be considered.
- 2. All the columns of this sheet should be filled in compulsorily by the bidder, merely asking the office to refer catalogue or brochure will not be entertained.
- 3. The bidder shall assume full responsibility of the information provided in this sheet. Any false statement should render the breach of basic foundation of the tender.

#### Name of Equipment / Instrument:

#### **Compliance Check list/ Table**

S. No.	Technical specification	Features available in equipment write (yes/No)	Any deviation from specification	Corresponding page no. and S. No./ Para no. of datasheet catalogue/ brochure in support of specification
	Technical			
	Specification as per Tender document			
1				
2				
3				
4				
5				
6				
7				

## (15) Check list for Terms and Conditions:

## To be filled by the bidder and submitted along with the Technical Bid.

S. No.	Technical Information	Page No.	Remarks
1.	Tender Fee, if applicable		
2.	EMD		
3.	Company/ Firm registration details		
4.	Authorization Certificate		
5.	Average Annual turnover of the bidder, for the last three successive years should be <b>four times</b> of the approximate cost of the equipment duly certified by the Chartered Accountants.		
6.	Experience		
7.	Income tax return (Last Three Years)		
8.	Audited balance sheet (Last Three Years)		
9.	Original Technical Catalogue of the quoted model and same should be available on the website		
10.	Compliance Statement with relation to the technical specification as mentioned in the bidding document duly supported by the original catalogue.		
11.	Self-declaration for not black listed		
12.	Clientele list (list of users) of quoted model of the items, attach couple of orders without any alteration/modification		
13.	Performance certificate of the same supplied machine (of quoted make and Model) from clients		
14.	Warranty & extended technical support certificate		
15.	Acceptance of all terms / conditions towards after sales / services as mentioned in the bidding document.		
16.	Certificate, to the effect that the bidder is not supplying the quoted item(s) to any other Govt. / Pvt. Organizations / Institutions at the rate lower than the rate quoted against this tender.		
17.	Certificate for 'Class-I local supplier' and 'Class-II local supplier'		
18.	Certificate for verification of local content		
19.	Integrity Pact		

#### **INTEGRITY PACT**

This INTEGRITY PACT is made and executed at.....on this day of......20....

BY AND BETWEEN

THE PRESIDENT OF INDIA acting through Registrar (insert name & designation of the officer) of Central University of Raiasthan, Bandarsindri, Kishangarh-305817, Aimer, (hereinafter referred to as

THE PRESIDENT OF INDIA acting through Registrar (insert name & designation of the officer) of Central University of Rajasthan, Bandarsindri, Kishangarh-305817, Ajmer. (hereinafter referred to as "The Buyer" which term or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the First Part;

#### **PREAMBLE**

In order to achieve these goals, the Buyer will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Buyer

- (1.) The Buyer commits itself to take all measures necessary to prevent corruption and to observe the following principles:
  - a. No employee of the Buyer, personally or through family members, will in connection with tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
  - b. The Buyer will during the tender process treat all Bidder(s) with equity and reason. The Buyer will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder{s} confidential /additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
  - c. The Buyer will exclude from the process all known prejudiced persons.
- (2.) If the Buyer obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there be a substantive suspicion in this regard, the Buyer will inform the Chief Vigilance Officer and in addition can initiate disciplinary actions.

#### Section 2 - Commitments of the Bidder(s)/Contractor(s)

- (1.) The Bidder(s)/Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/Contractor(s) commit themselves to observe the following principles during participation in the tender process and during the contract execution.
  - a. The Bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer promise or give to any of the Buyer's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
  - b. The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
  - c. The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act; further the Bidder(s)/Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to the others, any information or document provided by the Buyer as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
  - d. The Bidder(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India if any. Similarly the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign Buyer, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/ representative have to be in Indian Rupees only. Copy of the "Guidelines on Indian Agents of Foreign Suppliers" is placed at (page no. 6).
  - e. The Bidder(s) / Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intend to make to agents, brokers or any other intermediaries in the connection with the award of the contract.
  - f. Bidder(s) /Contractor(s) who have signed the integrity pact shall not approach the courts while representing the matter to IEMs and shall wait for their decision in the matter.
- (2.) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or to be an accessory to such offences.

**End of Tender Document**