

Department of Physics, MLSU, Udaipur
Standard Bidding Document
Single Stage Online Bid under Two-Cover System

Mohanlal Sukhadia University, Udaipur
Department of Physics

NOTICE INVITING E-BID
PHY/CS/DST-FIST/E-Tender/2024/48 Dated: 21/10/2024

Bidding Document

(For Procurement of **Electron Beam Evaporation System**)

Single Stage Online Bid under Two Cover Systems

Last Date for Bid Submission is November 06, 2024



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: physics@mlsu.ac.in

NOTICE INVITING TENDER THROUGH E-PROCUREMENT

PHY/CS/ DST-FIST/E-Tender/2024/48 Dated: 21/10/2024

Online bids are invited from interested firms under single stage two bid system for procurement of **Electron Beam Evaporation System** at Mohanlal Sukhadia University Udaipur, Rajasthan-313001. Manual bids shall not be entertained. **Tender document may be downloaded** from website state public procurement portal (SPPP) Rajasthan (<https://sppp.rajasthan.gov.in/>), e-procurement portal (<https://eproc.rajasthan.gov.in>) and University website (<https://mlsu.ac.in>)

Schedule is given hereunder in **CRITICAL DATE SHEET**:

Note: - Online single stage tender two bid system (technical and financial) must be uploaded strictly in accordance with all the terms & conditions of the University and state procurement rules come into force from time-to-time, otherwise the tender shall not be considered and shall be rejected outright. Counter conditions shall not be accepted. Bidders should read these conditions very carefully and comply strictly before submitting their tender. If a bidder has any doubts regarding the interpretation of any of the conditions or specifications mentioned in these documents, before submitting the tender, refer to the Head, Department of Physics and obtain clarification. The decision of the Head, Department of Physics regarding interpretation of the conditions and specification shall be final and binding on the bidders.

CONTENTS OF TENDER DOCUMENT

S. NO.	Description of Contents	Page No./ Annexure
1.	e-Tender No.	PHY/CS/ DST-FIST/E-Tender/2024/48 Dated 21/10/2024
2.	Critical Date Sheet, Tender Fee, EMD and tender Notice	3
3.	Technical Specifications	5
4.	Terms and Conditions	6-16
5.	Technical bid form (Compliance Sheet)	Annexure-I
6.	Organization Declaration Sheet	Annexure-II
7.	List of organizations where the same products have been supplied (in last three years)	Annexure-III
8.	Format for Performance Bank Guarantee	Annexure-IV
9.	Mandate Form for Electronic Fund Transfer/RTGS Transfer	Annexure-V
10.	Integrity Pact	Annexure-VI
11.	Training of personal	Annexure-VII
12.	Financial bid form (would be filled in BOQ online)	Annexure VIIIA & VIIIB

Head
Department of Physics
Mohanlal Sukhadia University Udaipur



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: physics@mlsu.ac.in

A. CRITICAL DATE SHEET, TENDER FEE and EMD

Tender No and Date	PHY/CS/ DST-FIST/E-Tender/2024/48 Dated 21/10/2024
Date of Issue	21/10/2024
Document Downloads/Sale Start Date & Time	23/10/2024 (09:00 AM)
Bid Submission Start Date & Time	23/10/2024 (09:00 AM)
Bid Submission End Date & Time	06/11/2024 (03:00 PM)
Bid Fees Submission Last date & Time	06/11/2024 (02:00 PM)
Date & Time for Opening of Technical Bids	06/11/2024 (04:00 PM)
Tender Fee and EMD	<p>RISL bid processing fees of Rs. 500/- for MD RISL, Jaipur payable at Jaipur (Managing Director, RajComp Info Services Ltd.) Rs. 1000/- (For Tender Fee) Rs. 38,000/- (For EMD 2%) (All fee to be paid through RTGS/NEFT).</p> <p>Bank details of Beneficiary are as under: Name: HEAD DEPARTMENT OF PHYSICS, MLSU, Udaipur Bank Name: ICICI BANK Branch Address: Bapu Bazar, Udaipur Bank Account No.: 693301413619 IFSC Code: ICIC0006933 MICR Code: 520485782</p> <p>(This is mandatory that UTR Number is provided)</p>
Performance Security	5 %
Warranty	3 years
Bid Validity days	180 days
Address for Communication	Department of Physics, Mohanlal Sukhadia University, M.B. Campus, Durga Nursery Road, Udaipur – 313002 (Rajasthan).



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: physics@mlsu.ac.in

(Abridged Form of Notice Inviting E-Bids to be published in newspapers with UBN Nos.)

DEPARTMENT OF PHYSICS, MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Notice Inviting E- Bid No.: PHY/CS/ DST-FIST/E-Tender/2024/48 Dated 21/10/2024

Single stage online unconditional bids under two-cover system are invited for the procurement of **Electron Beam Evaporation System** for Research purpose (Total estimated cost 19.00 Lakhs) from manufacturers/ authorized distributors/ authorized dealers up to 03:00 PM of 06/11/2024.

Details of required number of items, estimated cost, specifications and other terms and conditions etc may be seen in the Bidding Documents at the state websites: <https://sppp.rajasthan.gov.in/>, <https://eproc.rajasthan.gov.in> and University website: <https://mlsu.ac.in>

NIB Code.....

UBN No.....

Head,
Department of Physics,
Mohanlal Sukhadia University, Udaipur



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: physics@mlsu.ac.in

B. TECHNICAL SPECIFICATIONS

S.No	Item & specifications	{ Estimate Cost: Rs. 19.00 Lakhs}
1.	<p>Electron Beam Evaporation System</p> <p>The Electron Beam Evaporation System should be with range of full size vacuum systems, chamber and modular process accessories by offering users a range of thin film deposition with detailed specifications as:</p> <p>Vacuum Chamber:</p> <ol style="list-style-type: none">1. Stainless steel SS-304, front-loading, high vacuum water cooled D shaped, water-cooled chamber and having approximate dimension of 400 mm (W) x 400 mm (D) x 500mm (H).2. A front opening quick access door for loading and unloading the substrates and materials.3. One high vacuum compatible, toughened glass view port with a manual shutter assembly to avoid material deposition on the view port to the door.4. The chamber, all stainless steel components & sub-assemblies are electro-polished. <p>Vacuum Pumping:</p> <ol style="list-style-type: none">1. Oil sealed dual stage rotary pump having displacement capacity of 12 m³/hr.2. Oil diffusion pump having the pumping speed of 600 ltrs/sec for Nitrogen.3. A motorized poppet high vacuum valve of suitable size should be mounted above the high vacuum pump and be operated in throttling mode.4. Two numbers of electro pneumatically operated right angle valves for roughing and backing. A vent valve.5. A fine control needle valve for controlled admittance of process gas into the vacuum chamber.6. Digital gauge with two numbers of high pressure pirani gauge for monitoring pressure in the range of 1000 mbar to 10⁻³ mbar.7. Digital gauge with one number of sensor to monitor pressure in the range of 10⁻² mbar to 10⁻⁶ mbar.8. The ultimate vacuum of better than 1 x 10⁻⁶ mbar range can be achieved in clean, cold, degassed, chamber after high vacuum valve opens and initially back filled with pure dry Nitrogen gas and with liquid Nitrogen trap filled with liquid Nitrogen.9. All the components, sub-assemblies and final unit leak tested using MSLD to an individual leak rate of 5 x 10⁻⁹ mbar. ltrs / sec. <p>Electron beam gun:</p> <ol style="list-style-type: none">1. EB3 four-crucible electron beam evaporation source with: Four Pocket 4cc volume crucibles, 270° beam deflection, integral X-Y beam sweep coils, water cooling, quick release electron emitter assembly.2. EB3 feed through kit with two type high voltage feed through, dual water feed through, stainless-steel water pipes and water-cooling connection kit.3. Electron beam water flow switch kit should provide interlock signal when sufficient water is flowing through electron beam source.4. EB3 X-Y beam sweep controller with independent control in both X and Y directions of: Beam position, Beam sweep amplitude, Beam sweep frequency, Sinusoidal, triangular or square oscillation waveforms. Manual Turret drive.5. EB3 3KW electron beam power supply comprising a free standing power supply module and remote mounting high voltage and gun control panel should operate at 5KV. Integral high voltage transformer, forced air cooling, digital display of high voltage and filament/emission currents. Removable trolley base on power module.	

6. Interconnecting cables. Safety interlocks for air cooling, high vacuum cooling water and turret rotation. Manual shutter.

Rotatable Substrate Holder:

1. The substrate holder should be rotatable by designing associated fixtures for deposition process.
2. It should bear rotary drive mechanism for continuous rotation of substrates for uniform film deposition.

Film Thickness Monitor:

1. Digital thickness monitor with appropriate sensor head, feed through and oscillator to measure the rate of deposition and thickness.
2. Rate display: 3 digits LED auto-ranging from 00.00 to 999 Ags./sec.
3. Thickness display: 4 digits LED auto-ranging from 0.000 to 999.9 k Ags.
4. Static thickness resolution: 1 Ang. at minimum update rate.

Water Chiller:

Water chiller should be with capacity 0.5 TR comprising re-circulating pumps, storage tank, valves gauges etc for closed loop water cooling.

Housing Cabinet:

1. Should be ergonomically and aesthetically designed, powder coated MS cabinet with an easy access.
2. It should bear front and rear side doors for easy servicing and maintenance.
3. The unit should be mounted on 4 castor wheels for mobility and easy maneuverability.

Safety Interlocks:

Should be with all necessary safety devices and interlocks for the entire unit for operator's safety.

Operation & Instruction Manual:

Installation and operation, process & troubleshooting manuals.

Warranty:

One year from the date of Installation of the equipment.



TERMS AND CONDITIONS

1. Pre-condition for applying

The following criteria must be fulfilled by a bidder for submitting bid

- 1.1 The bidder must be a company/firm registered under the India Company Act, 1956 or a proprietary firm or a firm registered under partnership Act 1932. No consortium is allowed. Necessary certificates must be enclosed.
- 1.2 The bidder must be a manufacturer/authorised dealer /supplier of equipment/ software (as applicable in this bid) of reputed brand used in at least 5 Universities /Educational Institutions in the country.
- 1.3 The Manufacturer of the equipment/experiments/software should have been in the business during last three years with dealer/supplier network in different locations in the country.
- 1.4 The manufacturer should have own service engineers capable of installing/servicing equipments/software at the site of the customer. A certificate from manufacturer must be attached.
- 1.5 The turnover of the company during last financial year must be Rs. 20.00 lakhs or more.

2 Preparation of Bids:

The offer/bid should be submitted in online two bid systems (i.e. Technical bid and financial bid). The technical bid should consist of two compliance sheets (Sheet A for bidder details and Sheet B for technical specification) along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid in the given format i.e BOQ (Annexures -VIII A & VIII B).

Technical and Financial Bids are to be submitted online in PDF format only.

2.1. Technical Bid Format & Content: The Technical Bid shall not include any financial information. A Technical Bid containing material financial information shall be declared non-responsive.

2.2 The prospective bidders are requested to go through the Terms and Conditions of the contract carefully. The bid documents (Technical and Financial) are to be uploaded as per Annexure I and VIII A & VIII B. The rates quoted in the BOQ (VIII A and VIII B) should be inclusive of all charges such as labour, transportation, storage etc but exclusive of applicable taxes. Incomplete or ambiguous uploaded bids without documentary proof will not be considered.

2.3. Format and Signing of Bid

2.3.a. The bid forms/templates/annexure etc wherever applicable in technical bid shall be typed or written in indelible ink and shall be signed (all the pages) by a person duly authorized to sign, in token of acceptance of all the terms and conditions of the bidding document. This authorization shall consist of a written letter of Authorization as per Annexure-V.

2.3.b. Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the authorized person signing the bid.

2.3.c. The bid, duly signed (digitally) by Authorized signatory, should be uploaded on the eProc portal in respective file/ format.

2.4. Bid opening/Opening of Tenders:

2.4.a. The Bid Evaluation Committee will perform the bid opening, which is a critical event in the bidding process.

2.4.b. The Technical Bids shall be opened online through e-procurement portal <https://eproc.rajasthan.gov>. Bidder may access the document online.

2.4.c. All the bids uploaded up to specified date and time shall be opened online, on date and time at the specified place in the presence of bidders or their authorized representatives who may choose to be present as per procedure laid down in RTPP Rules 2013 and as amended from time to time. Alternatively, the bidders may also view bid opening status/ process online at e-procurement portal.

2.4.d. All the documents comprising of technical bid/cover shall be opened ONLINE on the eProc website (only for the bidders who have submitted the prescribed fee(s) intimated/ submitted transition reference to Head, Department of Physics, Mohanlal Sukhadia University, Udaipur).

2.5. Evaluation of Technical Bid

2.5.a. The evaluation shall be completed by the Bid Evaluation Committee as early as possible after opening of technical bids.

2.5.b. The eligible bidders whose bid is determined to be substantially responsive shall be considered to be qualified in the technical evaluation, unless disqualified pursuant to clause “Conflict of Interest” or “Disqualification.”

2.5.c. The Technical Evaluation Committee will assess the ability of the agencies to render the requisite services based on its past record, profile and on such other criteria and only those found fit will be eligible for financial bid opening.

2.5.d. The firms qualifying in technical evaluation will be informed through e-procurement portal.

2.5.e. The bid evaluation committee shall have full powers to undertake negotiations, if any.

2.5.f. Tendering authority's Right to accept/Reject any or all of the Bids: The tendering authority reserves the right to accept or reject any bid, and to cancel the bidding process and reject all the bids at any time prior issue the purchase order, without thereby incurring any liability to the bidders.

2.5.g. Price/purchase preference in evaluation: Price and/or purchase preference notified by the State Government shall be considered in the evaluation of bids and issue the purchase order.

2.6. Evaluation of Financial Bids

2.6.a. The Financial bids/cover or bidders who qualify in technical evaluation shall be opened ONLINE at the notified time, date and place in the presence of the bidders or their representatives who choose to be present. Alternatively, the bidders may also view the financial bid opening status/process online through e-procurement portal.

2.6.b. The process of opening the financial bids/covers shall be similar to that of the technical bids.

2.6.c. Acceptance of the Tender/Bid:

- The tendering authority shall award the purchase order/ contract to the bidder whose proposal/bid has been determined to be the lowest value bid.
- As soon as a bid is accepted by the tendering authority, its written intimation (LOA) would be sent to the concerned bidder asking to execute an agreement.
- The acceptance of an offer is completed as soon as the letter of communication is posted to the last notified address/correct address of the bidder(s).
- Acceptance of bid shall also be placed on websites as per prevalent procurement rules.

2.7. The rates once finalized will not be enhanced/ reduced during the purchase process. In case of foreign/ imported items, bidder must quote the price in INR.

2.8. In case the rates quoted by the tenderers are very high or do not suit the University, negotiation may be undertaken for reducing the quoted rates.

2.9. Merely quoting of lowest rates does not mean that order shall be given to that firm. The purchase committee /competent authority will finally decide on the basis of quality and performance of past installations.

2.10. Approved tenderer will have to execute an agreement in prescribed format on a non-judicial stamp of Rs.1000 to purchase cost at his own cost within 15 days from receipt of purchase order along with performance security money.

3.EMD:

3.1 The Tenderer should submit an EMD amount through RTGS/NEFT. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful tenderers after the award of contract.

3.2 In case of successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the EMD / performance security deposited would be forfeited.

4. Refund of EMD:

The EMD will be returned to unsuccessful tenderers only after the Tenders are finalized. In case of successful Tenderer, it will be retained till the successful, complete installation of the equipment and receipt of performance security.

5. Acceptance/ Rejection of bids: The University reserves all rights to reject any bid not fulfilling the eligibility criteria.

6. Eligibility Criteria:

6.1 Tenderer should be the manufacturer/ authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) specific to the tender should be enclosed.

6.2 An undertaking from the OEM is required stating that they would facilitate the tenderer on a regular basis with technology/product updates and extend support for the warranty as well (Ref. Annexure-II).

6.3 OEM should be Nationally/Internationally reputed Company.

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

6.5 In the tender, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

6.6 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product.

7. Performance Security:

The firm, to whom the tender will be awarded, will have to deposit the performance security equal to 5 % of total amount as per purchase order value in accordance with item number 2.10 as above on or before the date of installation to the equipment. If services would not found to be satisfactory then, performance security would liable to be forfeited. No interest will be paid on performance security.

8. Force Majeure:

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

8.1 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

8.2 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

9. Risk Purchase Clause:

In event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from the other source on the total risk of the supplier under risk purchase clause.

10. Packing Instructions:

Each package will be marked on three sides with proper paint/indelible ink, the following:

- Item Nomenclature
- Order/Contract No.
- Country of Origin of Goods
- Supplier's Name and Address
- Consignee details
- Packing list reference number

11. Delivery and Documents:

Delivery of the goods should be made within 03 months from the date of placement of purchase order. Within 24 hours of shipment, the supplier shall notify the purchaser and the insurance company by cable/telex/fax/e mail the full details of the shipment including contract number, railway receipt number/ AAP etc and date, description of goods, quantity, name of the consignee, invoice etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

- Four Copies of the Supplier invoice showing contract number, goods' description, quantity.
- Unit price and total amount.
- Insurance Certificate, if applicable.
- Manufacturer's/Supplier's warranty certificate.
- Inspection Certificate issued by the nominated inspection agency, if any.
- Supplier's factory inspection report.
- Certificate of Origin (if possible, by the beneficiary).
- Two copies of the packing list identifying the contents of each package.

- The above documents should be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

12. Liquidated Damages (L.D.):

If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be opened to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier as per the provisions of Rajasthan Transparency in Public Procurement Act 2012 (Act No.21 of 2012) Rules 2013 Govt. of Rajasthan / GF& AR and amended from time to time. The L.D. charges can be increased in case of gross violation of the purchase order terms as decided by the Comptroller of the University.

13. Prices:

Bidder must quote the final price in INR only for F.O.R, Department of Physics, Mohanlal Sukhadia University, Udaipur, including air/sea freight, insurance, custom duty against CDEC (DSIR Certificate), custom clearing charges and transportation up to the University at Udaipur. The final price should be inclusive of all the charges including taxes.

14. Progress of Supply:

Wherever applicable, supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:

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

15. Resolution of Disputes:

The dispute resolution mechanism would be as follows:

15.1. In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Indian Arbitration & Conciliation Act, 1996, the rules there under and any statutory modifications or re-enactments thereof shall apply to the arbitration proceedings. The dispute shall be referred to the Comptroller, Mohanlal Sukhadia University, Udaipur and if he/she is unable or unwilling to act, the sole arbitration of some other person appointed by the Vice Chancellor of the University willing to act as such Arbitrator. The award of the arbitrator so appointed shall be final, conclusive and binding on all the parties to this order.

15.2. In the case of a dispute between the purchaser and a Foreign Supplier, the dispute shall be settled by arbitration in accordance with provision of sub-clause (i) above. But if this is not acceptable to the supplier then the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules.

15.3. The venue of the arbitration shall be the place from where the order is issued.

16. Applicable Law:

The place of jurisdiction would be Udaipur, Rajasthan.

17. Right to Use Defective Goods:

If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, the purchaser shall have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the purchaser's operation.

18. Transfer and Subletting:

The supplier shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

19. Supplier Integrity:

The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

20. Installation & Demonstration:

20.1. The supplier is required to do the installation and demonstration of the equipment within two weeks of the arrival of materials at the site of installation at M.L.S. University, Udaipur; otherwise, the penalty clause will be the same as per the supply of materials.

20.2. In case of any damage to equipment and supplies during the carriage of supplies from the origin of equipment to the installation site, the supplier has to replace it with new equipment/supplies immediately at his own risk. M.L.S. University will not be liable to any type of losses in any form.

21. Insurance:

For delivery of goods at the purchaser's premises, the appropriate insurance shall be obtained by the supplier from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

22. Warranty:

22.1. Warranty period shall be (as stated in “technical specifications” of this tender) from date of installation of Goods at M.L.S. University. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests. The warranty should be comprehensive on site.

22.2. The Purchaser shall promptly notify the supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall arrange to repair or replace the defective goods or parts within 15 days free of cost in M.L.S. University. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 15 days. If the supplier having been notified fails to remedy the defects within 15 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier’s risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

23. Governing Language:

The contract shall be written in English language. English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, shall be written in the same language.

24. Duties

Mohanlal Sukhadia University is exempted from paying custom duty under notification No.51/96 as amended from time to time and necessary “Custom Duty Exemption Certificate” will be provided, if needs (since the M.L.S. University has DSIR Certificate) along with other documents as follows:

24.1. Shipping details i.e. Master Airway Bill No. and House Airway No. (if exists)

24.2 Forwarder details i.e. Name, Contact No., etc.

25. Payment:

The payment to the supplier will be made after successful installation of the equipment.

26. User list:

Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided (Ref. Annexure-III).

27. Site Preparation:

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

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

28. Spare Parts:

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

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares. Other spare parts and components shall be supplied as promptly as possible, but in any case, within three months of placement of order or at the time of equipment installation, whichever is earlier.

29. Defective Equipment: If any of the equipment supplied by the Supplier is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment shall be refunded by the Supplier with 18% interest if such payments for such equipment have already been made. All damaged or unapproved goods shall be returned at suppliers cost and risk and the incidental expenses incurred thereon shall be recovered from the supplier. Defective part (s) in equipment, if found before installation and/or during warranty period, shall be replaced within 30 days on receipt of the intimation from this office at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, M.L.S. University may consider "Banning" the supplier.

30. Termination for Default:

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

- If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser.
- If the Supplier fails to perform any other obligation(s) under the Contract.
- If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract. For the purpose of this Clause:
 “Corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
 “Fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the borrower and includes collusive practice among Tenderer (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition.
- In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

31. Downtime:

- During the warranty period, not more than 2% downtime will be permissible. For every day exceeding permissible downtime, penalty of 1/365 of the 1% of the value will be imposed. Downtime will be counted from the date and time of the filing of complaint within business hours.
- Supplier should clearly mention about their service set up in India (preferably in Northern part of India) for prompt service support along with contact details of service engineers specially trained on the offered system.

32. Training of Personnel:

The supplier shall be required to undertake to provide the technical training to the personnel involved in the use of the equipment at the University premises, immediately after completing the installation of the equipment as per Annexure VII.

33. Compliancy certificate:

This certificate must be provided indicating conformity to the technical specifications (Annexure-I).

34. Award of Contract:

Mohanlal Sukhadia University shall award the contract to the eligible bidder whose technical bid has been accepted and determined as the lowest evaluated commercial bid based on the Grand Total calculated of all items including taxes etc of the Price Bids. However, M.L.S. University reserves the right and has sole discretion to reject the lowest evaluated bid.

If more than one bidder happens to quote the same lowest price, M.L.S. University reserves the right to decide the criteria and further process for awarding the contract, decision of M.L.S. University shall be final for awarding the contract.

35. Additional Points:

- If the ITEM supplied by the Bidder fails during the warranty period, the supplier is required to repair/replace faulty devices/components/parts. If the ITEM shows frequent failure and requires frequent repair during warranty period, the supplier is required to replace the system free of cost.
- If there is any updation/ additional information in the submitted tender. A corrigendum will be published on the university website (www.mlsu.ac.in) and state procurement portals as applicable and as per prevalent rules. Bidder needs to take into account the corrigendum published on university website/ portal before submitting the bids online.



**DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

ANNEXURE-I

COMPLIANCE SHEET: TECHNICAL SPECIFICATION

To: Head, Department of Physics, Mohanlal Sukhadia University, Udaipur- 313001

Name of Supply: **Electron Beam Evaporation System** **Quantity 1 Nos**

Name of Supplier:

- (i) Bidder must submit technical bid (Compliance Sheets A and B) with supporting documents along with EMD as prescribed under terms and conditions.
- (ii) The Bidder must write Yes/No against each. Any deviation may be mentioned explicitly).

TECHNICAL BID FORM

Compliance Sheet-A for Bidder

S. No.	Particulars	Information to be provided by the Bidder	Check (Yes/(No))	Page No.
1.	Name of the Bidder with complete address and Telephone/Mobile number			
2.	Earnest Money Deposit in favour of Head Department of Physics, MLSU, Udaipur	Tender fee. Amount DD/NEFT/RTGS No. RISL Processing Fee Amount DD/NEFT/RTGS No. EMD Amount DD/NEFT/RTGS No.		

3.	Registration Number & Date of establishment of the firm.	Copy of registration should be attached as a proof.		
4.	The tenderer must be manufacturer or authorized dealer, if the tenderer is authorized dealer then the letter of authorization from the original equipment manufacturer, must be attached	Copy of manufacturer certificate / authorization letter		
5.	The company should have executed at least three orders of Rs. 20 Lakhs or more to government/reputed organizations /university during last three years.	Attach the copy of the orders.		
6.	The turnover of bidder company should more than Rs. 20 Lakhs in each year for the last three financial years.	Attach the copy of balance sheets.		
7.	GST, PAN, SSI/MSME Registration and PF & ESIC registration number of the firm etc.	Enclose copy		
8.	Whether the firm has been blacklisted by any Government/PSU/Board/University.	Submit an Undertaking on judicial stamp of Rs. 100/-		
9.	Bank details.	Attach copy of cancel cheque.		
10.	Provide the name(s) of your prestigious customers with their phone nos. for whom the order has been placed during last three years	Attach list (Annexure III)		

COMPLIANCE SHEET - B

Technical Specification for Electron Beam Evaporation System

S. No.	Item & specifications	Make & model	Compliance (Yes/ No)	Deviation, if any
1.	<p>Electron Beam Evaporation System</p> <p>The Electron Beam Evaporation System should be with range of full size vacuum systems, chamber and modular process accessories by offering users a range of thin film deposition with detailed specifications as:</p> <p>Vacuum Chamber:</p> <ol style="list-style-type: none"> 1. Stainless steel SS-304, front-loading, high vacuum water cooled D shaped, water-cooled chamber and having approximate dimension of 400 mm (W) x 400 mm (D) x 500mm (H). 2. A front opening quick access door for loading and unloading the 			

substrates and materials.

3. One high vacuum compatible, toughened glass view port with a manual shutter assembly to avoid material deposition on the view port to the door.
4. The chamber, all stainless steel components & sub-assemblies are electro-polished.

Vacuum Pumping:

1. Oil sealed dual stage rotary pump having displacement capacity of 12 m³/hr.
2. Oil diffusion pump having the pumping speed of 600 ltrs/sec for Nitrogen.
3. A motorized poppet high vacuum valve of suitable size should be mounted above the high vacuum pump and be operated in throttling mode.
4. Two numbers of electro pneumatically operated right angle valves for roughing and backing. A vent valve.
5. A fine control needle valve for controlled admittance of process gas into the vacuum chamber.
6. Digital gauge with two numbers of high pressure pirani gauge for monitoring pressure in the range of 1000 mbar to 10⁻³ mbar.
7. Digital gauge with one number of sensor to monitor pressure in the range of 10⁻² mbar to 10⁻⁶ mbar.
8. The ultimate vacuum of better than 1 x 10⁻⁶ mbar range can be achieved in clean, cold, degassed, chamber after high vacuum valve opens and initially back filled with pure dry Nitrogen gas and with liquid Nitrogen trap filled with liquid Nitrogen.
9. All the components, sub-assemblies and final unit leak tested using MSLD to an individual leak rate of 5 x 10⁻⁹ mbar. ltrs / sec.

Electron beam gun:

1. EB3 four-crucible electron beam evaporation source with:
Four Pocket 4cc volume crucibles, 270° beam deflection, integral X-Y beam sweep coils, water cooling, quick release electron emitter assembly.
2. EB3 feed through kit with two type high voltage feed through, dual water feed through, stainless-steel water pipes and water-cooling connection kit.
3. Electron beam water flow switch kit should provide interlock signal when sufficient water is flowing through electron beam source.

4. EB3 X-Y beam sweep controller with independent control in both X and Y directions of: Beam position, Beam sweep amplitude, Beam sweep frequency, Sinusoidal, triangular or square oscillation waveforms. Manual Turret drive.
5. EB3 3KW electron beam power supply comprising a free standing power supply module and remote mounting high voltage and gun control panel should operate at 5KV. Integral high voltage transformer, forced air cooling, digital display of high voltage and filament/emission currents. Removable trolley base on power module.
6. Interconnecting cables. Safety interlocks for air cooling, high vacuum cooling water and turret rotation. Manual shutter.

Rotatable Substrate Holder:

1. The substrate holder should be rotatable by designing associated fixtures for deposition process.
2. It should bear rotary drive mechanism for continuous rotation of substrates for uniform film deposition.

Film Thickness Monitor:

1. Digital thickness monitor with appropriate sensor head, feed through and oscillator to measure the rate of deposition and thickness.
2. Rate display: 3 digits LED auto-ranging from 00.00 to 999 Ags./sec.
3. Thickness display: 4 digits LED auto-ranging from 0.000 to 999.9 k Ags.
4. Static thickness resolution: 1 Ang. at minimum update rate.

Water Chiller:

Water chiller should be with capacity 0.5 TR comprising re-circulating pumps, storage tank, valves gauges etc for closed loop water cooling.

Housing Cabinet:

1. Should be ergonomically and aesthetically designed, powder coated MS cabinet with an easy access.
2. It should bear front and rear side doors for easy servicing and maintenance.
3. The unit should be mounted on 4 castor wheels for mobility and easy maneuverability.

Safety Interlocks:

Should be with all necessary safety devices and interlocks for the entire unit for operator's safety.

Operation & Instruction Manual:

Installation and operation, process & troubleshooting manuals.

Warranty:

One year from the date of Installation of the equipment.			
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Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____

ANNEXURE-II
<< Organization Letter Head >>
DECLARATION SHEET

We, _____ hereby certify that all the information and data furnished by our organization with regard to these tender specifications are true and complete to the best of our knowledge. I have gone through the specifications, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

I/We hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality/entirety.

This is certified that our organization has been authorized (Copy attached) by the OEM to participate in Tender. We further certify that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, OEM has agreed to support on regular basis with technology / product updates and extend support for the warranty.

The corrigendum(s) issued from time to time by your department/organization too have also been taken into consideration, while submitting this acceptance letter.

We, further specifically certify that our organization has not been Black Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.

The prices quoted in the financial bids are subsidized due to academic discount given to MLSU, Udaipur.

Name & Address of the Vendor/ Manufacturer / Agent	
Phone No.	
Fax	
E-mail	
Contact Person Name	
Mobile Number	
TIN Number	
PAN Number	
UTR No. (For Tender Fee) (In case of on-line payment)	
UTR No. (For EMD) (In case of on-line payment)	

(Signature of the Tenderer)

Name:
Seal of the Company

ANNEXURE-III

LIST OF GOVERNMENT ORGANIZATION/ DEPARTMENT

List of Government Organizations for whom the Tenderer has undertaken such work/ supplied this equipment during last three years (must be supported with work orders)		
Name of the organization	Name of Contact Person	Contact No.

Name of application specialist / Service Engineer who have the technical competency to handle and support the quoted product during the warranty period.		
Name of the organization	Name of Contact Person	Contact No.

Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____

FORMAT FOR PERFORMANCE BANK GUARANTEE

(To be typed on Non-judicial stamp paper of the value of Indian Rupees of One Hundred) (TO BE ESTABLISHED THROUGH ANY OF THE NATIONAL BANKS (WHETHER SITUATED AT UDAIPUR OR OUTSTATION) WITH A CLAUSE TO ENFORCE THE SAME ON THEIR LOCAL BRANCH AT UDAIPUR OR ANY SCHEDULED BANK (OTHER THAN NATIONALISED BANK) SITUATED AT UDAIPUR. BONDS ISSUED BY CO-OPERATIVE BANKS ARE NOT ACCEPTED.)

To

Mohanlal Sukhadia University
Udaipur-313001
India

LETTER OF GUARANTEE

WHEREAS Mohanlal Sukhadia University (Buyer) have invited Tenders vide Tender No.....dt..... for purchase of and whereas the said tender document requires that any eligible successful tenderer (seller) wishing to supply the equipment /machinery etc in response thereto shall establish an irrevocable Performance Guarantee Bond in favour of “**Mohanlal Sukhadia University, Udaipur**” in the form of Bank Guarantee for Rs and valid till warranty period of the equipment from the date of issue of Performance Bank Guarantee may be submitted on or before installation date by a successful tenderer.

NOW THIS BANK HEREBY GUARANTEES that in the event of the said tenderer (seller) failing to abide by any of the conditions referred in tender document/ purchase order/ performance of the equipment/ machinery, etc, this bank shall pay to Mohanlal Sukhadia University on demand and without protest or demur Rs (Rupees.....).

This bank further agrees that the decision of Mohanlal Sukhadia University, Udaipur (Buyer) as to whether the said Tenderer (Seller) has committed a breach of any of the conditions referred in tender document / purchase order shall be final and binding.

We, (name of the bank & branch) hereby further agree that the guarantee herein contained shall not be affected by any change in the constitution of the Tenderer (Seller) and/ or Mohanlal Sukhadia University, Udaipur (Buyer).

Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed Rs. (Indian Rupees only).
2. This Bank Guarantee shall be valid up to (date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if University serves upon us a written claim or demand on or before(date).

This Bank further agrees that the claims if any, against this Bank Guarantee shall be enforceable at our branch office at situated at (Address of local branch).

Yours truly,

Signature and seal of the guarantor:

Name of Bank:

Address:

Date:

Instruction to Bank: Bank should note that on expiry of Guarantee Period, the Original Guarantee will not be returned to the Bank. Bank is requested to take appropriate necessary action on or after expiry of bond period.

ANNEXURE-V

MANDATE FORM FOR ELECTRONIC FUND TRANSFER/RTGS TRANSFER

Date: / /

The Head

Department of Physics
Mohanlal Sukhadia University,
M.B. Campus, Udaipur-313002

Sub: Authorization for release of payment / dues from Mohanlal Sukhadia University, Udaipur through Electronic Fund Transfer/RTGS Transfer.

1. Name of the Party/Firm/Company/Institute:
2. Address of the Party:
3. Particulars of Bank;

Bank Name		Branch Name	
Branch Place		Branch City	
PIN Code		Branch Code	
MICR No			
(9 Digit number appearing on the MICR Bank of the Cheque supplied by the Bank, please attach a Xerox copy to a cheque of the bank for ensuring accuracy of the bank name, branch name and code number)			
IFS Code: (11 digit alphanumeric code)			
Account Type	Savings	Current	Cash Credit
Account Number:			

DECLARATION

I hereby declare that the particulars given above are correct and complete. If any transaction delayed and not effected for reasons of incomplete or incorrect information, I shall not hold Registrar, Mohanlal Sukhadia University, Udaipur responsible. I also undertake to advise any change in the particulars of my account to facilitate updating of records for purpose of credit of amount through NEFT/RTGS Transfer.

Place: _____

Date: _____

Signature & Seal of the Authorized Signatory of the Party

Certified that particulars furnished above are correct as per our records

Bankers Stamp:

Date: _____

Signature of the Authorized Official from the Bank

N.B.: Please fill all the information in CAPITAL LETTERS, computer typed; please TICK wherever it is applicable.

ANNEXURE VI

(to be printed on Supplier's letterhead)

INTEGRITY PACT

General

This pre-bid pre-contract Agreement hereinafter called the Integrity Pact is made on.....

day of the month of, between, on one hand, the Governor of Rajasthan acting through Registrar, Mohanlal Sukhadia University, Udaipur

Udaipur-313001 hereinafter called the “BUYER” of the first part and M/s..... represented by Shri, Director /Chief Executive Officer/ General Manager hereinafter called the “TENDERER/Seller” of the second part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the TENDERER/Seller is willing to offer/has offered the stores and WHEREAS the TENDERER is a private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is an Autonomous Body (University) performing its functions on behalf of the Governor of Rajasthan.

NOW, THEREFORE, to avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to enabling the BUYER to obtain the desired said stores/ equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and Enabling Tenderer to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

1. Commitments of the BUYER:

1.1 The BUYER undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the TENDERER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.

1.2 The BUYER will, during the pre-contract stage, treat all Tenderer alike, and will provide to all tenderer the same information and will not provide any such information to any particular

TENDERER which could afford an advantage to that particular TENDERER in comparison to other Tenderer.

1.3 All the officials of the Buyer will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

1.4 In case any such preceding misconduct on the part of such official(s) is reported by the TENDERER to the BUYER, with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

2. Commitments of TENDERER:

The TENDERER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

2.1 The TENDERER will not offer, directly or through intermediaries, any bribe, consideration, gift, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.

2.2 The TENDERER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of BUYER or otherwise in procuring the Contract or forbearing to do or having done any act in relation to obtaining or execution of Contract or any other Contract with Government/ University for showing or for bearing to show favour or disfavour to any person in relation to the Contract or any other Contract with the Government/ University.

2.3 Tenderer shall disclose the name and address of agents and representatives and Indian Tenderer shall disclose their foreign principals or associates.

2.4 Tenderer shall disclose the payments to be made by them to agents/ brokers or any other intermediary, in connection with this bid/contract.

2.5 The TENDERER further confirms and declares to the BUYER that the TENDERER is the original manufacturer/ integrator/ authorized government sponsored export entity of the defines stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER, or any of its functionaries, whether officially or unofficially to the award of the contract to the TENDERER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.

2.6 The TENDERER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.

2.7 The TENDERER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

2.8 The TENDERER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

2.9 The TENDERER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The TENDERER also undertakes to exercise due and adequate care lest any such information is divulged.

2.10 The TENDERER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

2.11 The TENDERER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.

2.12 If the TENDERER or any employee of the TENDERER or any person acting on behalf of the TENDERER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest/stake in the TENDERER's firm, the same shall be disclosed by the TENDERER at the time of filling of tender. The term relative for this purpose would be as defined in Section 6 of the Companies Act 1956.

2.13 The TENDERER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

3. Previous Transgression

3.1 The TENDERER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify TENDERER's exclusion from tender process.

3.2 The TENDERER agrees that if it makes incorrect statement on this subject, TENDERER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

4. Earnest Money Deposit

4.1 While submitting bid, the TENDERER shall deposit an amount mentioned in tender document as Earnest Money, with the University through the following instruments:

4.1.1 The tenderer should submit an EMD amount through NEFT/RTGS. The Technical Bid without EMD would be considered as UNRESPONSIVE and will not be accepted. The EMD will be refunded without any interest to the unsuccessful tenderer after the award of contract on submitting request in appropriate form as available on the University website.

4.2 No interest shall be payable by the BUYER to the TENDERER on Earnest Money for the period of its currency.

4.3 In case of successful TENDERER, EMD will be returned within 30 days from the date of submission of Performance Bank Guarantee on submitting request in appropriate form.

5. SECURITY DEPOSIT/ PERFORMANCE GUARANTEE:

5.1 Performance Bank Guarantee is mandatory.

5.2 Successful tenderer/ firm should submit performance guarantee as prescribed above to be received in the Department of Physics, Mohanlal Sukhadia University on or before the installation

date. The performance bank guarantee to be furnished in the form of Bank Guarantee must be as per Annexure-IV of the tender documents for an amount covering 5% of the purchase order value.

5.3 The Performance Bank Guarantee should be established in favour of “Head, Department of Physics, Mohanlal Sukhadia University” through any Bank situated at Udaipur or outstation with a clause to enforce the same on their local branch at Udaipur. Performance Bank Guarantee shall be for the due and faithfully performance of the contract and shall remain binding, notwithstanding such variations, alterations for extensions of time as may be made, given, conceded or agreed to between the successful tenderer and the purchaser under the terms and conditions of acceptance to tender.

5.4 The successful tenderer is entirely responsible for due performance of the contract in all respects according to the speed, intent and meaning of the terms and conditions and specification and all the other documents referred to in the acceptance of tender.

5.5 The performance bank guarantee shall be kept valid during the period of contract and shall continue to be enforceable for a period of warranty duration from the date of installation.

6. Sanctions for Violations

6.1 Any breach of the aforesaid provisions by the TENDERER or anyone employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER) shall entitle the BUYER to take all or any one of the following actions, wherever required:

6.1.1 To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the TENDERER. However, the proceedings with the other TENDERER(s) would continue.

6.1.2 The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit/Performance Bank Guarantee (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

6.1.3 To immediately cancel the contract, if already signed without giving any compensation to the TENDERER.

6.1.4 To recover all sums already paid by the BUYER, and in case of an Indian TENDERER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a TENDERER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the TENDERER from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

6.1.5 To encase the advance bank guarantee and performance guarantee/warranty bond, if furnished by the TENDERER, in order to recover the payments, already made by the BUYER, along with interest.

6.1.6 To cancel all or any other contracts with the TENDERER. The TENDERER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the TENDERER.

6.1.7 To debar the TENDERER from participating in future bidding processes of the Government of India for a minimum period of two years, which may be further extended at the discretion of the BUYER.

6.1.8 To recover all sums paid in violation of this pact by the TENDERER(s) to any middleman or agent or broker with a view to securing the contract.

6.1.9 In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the TENDERER, the same shall not be opened.

6.1.10 Forfeiture of Performance Bank Guarantee: in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1.1 to 6.1.10 of this Pact also on the Commission by the TENDERER or any one employed by it or acting on its behalf (whether with or without the knowledge of the TENDERER), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this pact has been committed by the TENDERER shall be final and conclusive on the TENDERER. However, the TENDERER can approach the independent monitor(s) for the purposes of this pact.

7. Fall Clause

The TENDERER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/ Department of the Government of India/ Rajasthan or PSU and if it is found at any stage that similar product/system or subsystem was supplied by the TENDERER to any other Ministry/Department of the Government of India/ Rajasthan or PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the TENDERER to the BUYER, if the contract has already been concluded.

8. Independent monitors

8.1 The BUYER may appoint Independent Monitors (hereinafter referred to as Monitors) for this pact in consultation with the authorities of the University.

8.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this pact.

8.3 The Monitor shall not be subject to instructions by the representatives of the parties and performs their functions neutrally and independently.

8.4 Both the parties accept that the Monitor have the right to access all the documents relating to the project/procurement, including minutes of the meetings.

8.5 As soon as the Monitor notices, or believes to notice, a violation of this pact, he will so inform the Authority designated by the BUYER.

8.6 The TENDERER(s) accepts that the Monitor has the right to access without restriction to all project documentation of the BUYER including that provided by the TENDERER. The TENDERER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the TENDERER/Subcontractor(s) with confidentiality.

8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.

8.8 The Monitor will submit a written report to the designated Authority of BUYER/ Registrar to the University within 08 to 10 weeks from the date of reference or intimation to him by the

BUYER/ TENDERER and, should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the TENDERER and the TENDERER shall provide necessary information & documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and Jurisdiction is the Seat of the BUYER.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

12. Validity

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 3 years or the complete execution of the contract to the satisfaction of both the BUYER and the TENDERER/ Seller, including warranty period, whichever is later. In case TENDERER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this pact turn out to be invalid, the remainder of this pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact.

BUYER

TENDERER

Mohanlal Sukhadia University, Udaipur

Signature with seal

Date & Place:

Date & Place:

Witness

Witness

1. _____

1. _____

(Indenter)

ANNEXURE -VII

Training Requirement

1.	Product Description	Electron Beam Evaporation System
2.	No of Attendees	05
3.	Type of Training	a. Operational Training
		b. End User Training
		c. Maintenance Training

TENDERER

Signature with seal



DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR

Email: physics@mlsu.ac.in

BID SUBMISSION

Online Bid Submission:

The Online bids (complete in all respect) must be uploaded online in **Three** Envelops as explained below:-

Envelope – 1			
(Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1.	Fee Documents	NEFT/RTGS/UTR No and Date/Bank Details Bid Fees RISL Processing Fee EMD Details etc.	.PDF
Envelope – 2			
(Following documents to be provided as single PDF file)			
Sl. No.	Documents	Content	File Types
1.	Technical Bid	Compliance Sheet (A&B) as per Annexure – I	.PDF
2.		Organization Declaration Sheet as per Annexure – II	.PDF
3.		List of organizations/ clients where the same products have been supplied (in last three years) along with their contact number(s). (Annexure-III)	.PDF
4.		Mandate Form for Electronic Fund Transfer/RTGS Transfer (Annexure V)	.PDF
5.		Integrity Pact (Annexure VI)	.PDF
6.		Technical supporting documents in support of all the claims made at Annexure-I	.PDF
7.		Submit an Undertaking regarding non-blacklisting of firm on judicial stamp of Rs. 100/-	.PDF
Envelope – 3			
Sl. No.	TYPES	Content	File Type
1.	Financial Bid	Price bid Annexure-VIIIA	BOQ
		Annexure-VIIIB	BOQ
2.		Financial Bid Documents	.PDF



**DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email: physics@mlsu.ac.in

Annexure-VIIIA

<Department/Centre Name>

Mohanlal Sukhadia University, Udaipur, 313001

Date: XX/XX/XXXX

Subject: Purchase of <Item> (Following format is used for imported items)

S. No.	Currency	Description and Specification of the Item	Qty. in Units	Unit Price (a)	Discount (b)	Ex-works price (c=a-b)	Packing + Handling + DOC + Inland Freight + FCA Charges (d)	FOB/FCA Airport Price (e=c+d)	Insurance + Freight (f)	CIF Price (e+f)	F.O.R. Udaipur Price
1		Electron Beam Evaporation System (As per technical specifications)	1 no								

Note: At any circumstances, it is the responsibility of the foreign supplier to hand over the system to our forwarder at the origin airport after completing all the inland clearing. No Ex-works consignment will be entertained.



**DEPARTMENT OF PHYSICS
MOHANLAL SUKHADIA UNIVERSITY, UDAIPUR**

Email:physics@mlsu.ac.in

Annexure-VIIB

For indigenous items please quote as per following format.

S. No.	Description and Specifications of the Item (As per specifications given in 'Technical Specifications')	Qty. in Units	Unit Price in Rs.	Taxes as applicable against DSIR Certificate	Total Price in Rs.
1.	Electron Beam Evaporation System	1 Nos.			

Note: The above financial template should be strictly followed. Any deviation from the above template (in terms of description and specification of the item) may lead to cancellation of the tender

FINACIAL BID FORM (Please submit in PDF item wise rate)

To: Head, Department of Physics, Mohanlal Sukhadia University, Udaipur - 313001

Name of Supply: **Electron Beam Evaporation System**

Name of Supplier:

S. No.	Item & specifications	Rate per unit including all cost (F.O.R., Udaipur) excluding taxes	Custom Duty and other taxes as applicable against DSIR certificate	Total Price (F.O.R Udaipur)
1.	<p>Electron Beam Evaporation System The Electron Beam Evaporation System should be with range of full size vacuum systems, chamber and modular process accessories by offering users a range of thin film deposition with detailed specifications as:</p> <p>Vacuum Chamber:</p> <ol style="list-style-type: none"> 1. Stainless steel SS-304, front-loading, high vacuum water cooled D shaped, water-cooled chamber and having approximate dimension of 400 mm (W) x 400 mm (D) x 500mm (H). 2. A front opening quick access door for loading and unloading the substrates and materials. 3. One high vacuum compatible, toughened glass view port with a manual shutter assembly to avoid material deposition on the view port to the door. 4. The chamber, all stainless steel components & sub-assemblies are electro-polished. <p>Vacuum Pumping:</p> <ol style="list-style-type: none"> 1. Oil sealed dual stage rotary pump having displacement capacity of 12 m³/hr. 2. Oil diffusion pump having the pumping speed of 600 ltrs/sec for Nitrogen. 3. A motorized poppet high vacuum valve of suitable size should be mounted above the high vacuum pump and be operated in throttling 			

mode.

4. Two numbers of electro pneumatically operated right angle valves for roughing and backing. A vent valve.
5. A fine control needle valve for controlled admittance of process gas into the vacuum chamber.
6. Digital gauge with two numbers of high pressure pirani gauge for monitoring pressure in the range of 1000 mbar to 10^{-3} mbar.
7. Digital gauge with one number of sensor to monitor pressure in the range of 10^{-2} mbar to 10^{-6} mbar.
8. The ultimate vacuum of better than 1×10^{-6} mbar range can be achieved in clean, cold, degassed, chamber after high vacuum valve opens and initially back filled with pure dry Nitrogen gas and with liquid Nitrogen trap filled with liquid Nitrogen.
9. All the components, sub-assemblies and final unit leak tested using MSLD to an individual leak rate of 5×10^{-9} mbar. ltrs / sec.

Electron beam gun:

1. EB3 four-crucible electron beam evaporation source with:
Four Pocket 4cc volume crucibles, 270° beam deflection, integral X-Y beam sweep coils, water cooling, quick release electron emitter assembly.
2. EB3 feed through kit with two type high voltage feed through, dual water feed through, stainless-steel water pipes and water-cooling connection kit.
3. Electron beam water flow switch kit should provide interlock signal when sufficient water is flowing through electron beam source.
4. EB3 X-Y beam sweep controller with independent control in both X and Y directions of: Beam position, Beam sweep amplitude, Beam sweep frequency, Sinusoidal, triangular or square oscillation waveforms. Manual Turret drive.
5. EB3 3KW electron beam power supply comprising a free standing power supply module and remote mounting high voltage and gun control panel should operate at 5KV. Integral high voltage transformer, forced air cooling, digital display of high voltage and filament/emission currents. Removable trolley base on power module.
6. Interconnecting cables. Safety interlocks for air cooling, high vacuum cooling water and turret rotation. Manual shutter.

Rotatable Substrate Holder:

1. The substrate holder should be rotatable by designing associated

<p>fixtures for deposition process.</p> <ol style="list-style-type: none"> It should bear rotary drive mechanism for continuous rotation of substrates for uniform film deposition. <p>Film Thickness Monitor:</p> <ol style="list-style-type: none"> Digital thickness monitor with appropriate sensor head, feed through and oscillator to measure the rate of deposition and thickness. Rate display: 3 digits LED auto-ranging from 00.00 to 999 Ags./sec. Thickness display: 4 digits LED auto-ranging from 0.000 to 999.9 k Ags. Static thickness resolution: 1 Ang. at minimum update rate. <p>Water Chiller: Water chiller should be with capacity 0.5 TR comprising re-circulating pumps, storage tank, valves gauges etc for closed loop water cooling.</p> <p>Housing Cabinet:</p> <ol style="list-style-type: none"> Should be ergonomically and aesthetically designed, powder coated MS cabinet with an easy access. It should bear front and rear side doors for easy servicing and maintenance. The unit should be mounted on 4 castor wheels for mobility and easy maneuverability. <p>Safety Interlocks: Should be with all necessary safety devices and interlocks for the entire unit for operator's safety.</p> <p>Operation & Instruction Manual: Installation and operation, process & troubleshooting manuals.</p> <p>Warranty: One year from the date of Installation of the equipment.</p>			
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Signature of Tenderer

Name: _____

Designation: _____

Organization Name: _____

Contact No.: _____