

To: \_\_\_\_\_

Subject: **Invitation of Tender for Scanning Electron Microscope & Sputter Coater**

Dear Sir,

We invite you to quote for supply of the item as detailed in Annex-A & B enclosed. Offers must be submitted on company's letterhead with complete specifications of offered equipment/item and undertaking given at the end of Annex-A & B along with format for bid (Annex-C & D) to be duly filled.

The terms and conditions of this tender are as under :-

1. The Bids comprise a **single stage** containing **Two separate sealed envelopes** are required to be delivered at IST-Islamabad by **12:00** Hours on **15<sup>th</sup> Oct. 2025**. Tenders will be opened on same date at **12:00** Hours in the presence of bidders who desire to attend. Each envelop shall contain separately the financial proposal and the technical proposal. The envelopes shall be marked as "**FINANCIAL PROPOSAL**" and "**TECHNICAL PROPOSAL**" in bold and legible letters to avoid confusion. Initially, only the envelope marked as "**TECHNICAL PROPOSAL**" shall be opened. The envelope marked as "**FINANCIAL PROPOSAL**" shall be retained in the custody of the procuring agency without being opened. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance.
2. Sealed tenders addressed to the Deputy Director (Procurement), Institute of Space Technology, Near Rawat Toll Plaza, Islamabad Highway, Islamabad may be dropped in the tender box or mailed through courier, registered post; but it must be ensured that the same reaches our office well in time as late offers will not be considered. The envelopes should be marked clearly with the following information.

**Tender No : RFQ-2526-00024-L**

**Due Date : 15<sup>th</sup> Oct. 2025**

**Tender For : Scanning Electron Microscope & Sputter Coater**

3. **Rates:** The bidder should quote their rates for :-
  - i. Free Delivery at IST inclusive of all Govt. taxes. Details of such taxes to be provided.
  - ii. All charges within Pakistan till delivery (including port clearances, custom duties and all taxes), installation and commissioning in IST should be included and mentioned in the quotation.
  - iii. The bidder should indicate their NTN NO. & Sales Tax registration number.
  - iv. Items must be quoted as per user requirements/sample available at IST - Store.
  - v. Before submitting any offer, bidder must consult the concerned user regarding any query/specifications or checking of sample. No change in the offer will be accepted later on.
  - vi. Offer shall be made as per our demanded specs or equivalent.

- vii. All optional accessories are to be quoted separately as well. Essential accessories required for operational/ running of machine must be provided along with the offer.
  - viii. The organization reserves the right to modify or reduce the Scope of Work at its sole discretion, based on prevailing needs and the availability of resources or funding.
4. **BID SECURITY:** Technical offer must be accompanied with **03%** of total bid value (inclusive of accessories) in the form of pay order/ call deposit/ Demand draft/ unconditional bank guarantee from scheduled bank having 150 days validity in favor of IST-Islamabad. No offer will be entertained without bid security. The bid security will finally be adjusted/ refunded on completion of the contract. At any stage if the purchaser feels that the bidder has provided wrong information or the samples are not provided as per the specifications mentioned in their offer, the bid security will be forfeited.
5. Tender fee of PKR. 2,000/- in form of DD/PO must be submitted along with the offer in favor of IST-Islamabad.
6. **IST FTN #:** 9010613-0.
7. **Delivery:** Item may be delivered within **120-days** after issuance of Purchase Order. Successful delivery along with offloading of the ordered item at the **Purchaser's** premises will be **Supplier's** responsibility.
8. **Validity:** The offer shall remain valid for our acceptance for **120-Days** from the date of opening of tender. Offers with validity less than **120-days** will be liable for rejection.
9. **Inspection:** The inspection shall be carried out at IST by IST inspection committee and the inspection report (findings) shall be binding on you.
10. **Taxes:**
- i. GST/CED will be paid by the **PURCHASER** to the **SUPPLIER'S** on production of a separately numbered "Tax Invoice" showing the amount of sales tax and other details under section 23 of Sales Tax Act-1990.
  - ii. As per in vogue GST SRO, 20% of the 18% GST amount will be retained by the Purchaser and later on submitted in the CBR/Government Treasury, where as 80% of the 18% GST will be paid to the Supplier for onward deposition in FBR/Government Treasury. However, GST rate is subject to change as and when notified by Government.
  - iii. Income tax will be deducted as per rule.
  - iv. Any change in taxes levied by Govt. after opening of bids will be on account of bidder. No change in offer will be accepted later on.
11. **Payment:** All payments will be made through crossed cheque in favor of the **SUPPLIER** in Pak Rupees. The payment mode will be "100 % Payment after Delivery" and after satisfactory performance in every aspect and inspection. Advance payment is subject to provision of equal amount of Bank Guarantee valid for 60 days from date of delivery.  
**Note:** Any representation for the delay of payment will not be accepted, until complete required documents have not been received. (Countdown starts when Store receives complete documents).
12. **Late Offers:** The quotations received late (after opening the tender) will not be considered. Cutting/ over writing are not allowed, unless/ until authenticated under proper signature of



the authorized person.

13. **Performance Bond:** 10% of total order value to be provided by firm in shape of unconditional and irrevocable Bank Guarantee/ Demand Draft of Pakistani Scheduled Bank to be valid till the expiry of Guarantee/Warranty period within 10 working days of signing of contract. Else 0.01% of total order value for each day may be charged maximum upto 10% of contract value. Dir Admin & Proc decision in this regard shall be fix and final.  
The release of 10% Performance bond shall occur subsequent to the termination of the validity period and upon the receipt of a written request by the firm.
14. In case of any arithmetic error unit price shall prevail.
15. Publication/Literature/Catalogue in Hard Copies/CDs will be provided along with offer.
16. IST reserves the right to increase / decrease the quantity as per requirements.
17. Only technically qualified bidders will be informed for financial opening of their bids. Firms, after qualifying technical criteria and having lowest quoted value shall be considered successful. Financial offer of technically disqualified supplier will be returned unopened along with their bid security.
18. **Warranty:** Local agent may arrange OEM warranties of offered equipment for at least five years from the date of successful installation, commissioning.
19. Bids will be evaluated in a manner that the item will bring “value for money” to the organization. Offers with lower specifications than demanded specs will be liable for rejection.
20. If IST deemed necessary, the lowest bidder may be asked to provide sample before awarding of any contract/ order. In case the sample of lowest bidder is rejected, sample from other bidders will be called and contract will be awarded to technically qualified lowest bidder.
21. IST may ask the lowest bidder for any clarification/providing of documents for satisfactory evaluation of offer.
22. Those firms are not eligible to participate in the tender whose deliveries of stores are pending/ delayed for the five months or more or their previous performance is not satisfactory, against any IST purchase order. If participated in tender their offer may be accepted/ rejected based on previous performance.
23. Conditional bids may be liable for rejection. Offers with incomplete documentation will be rejected.
24. A being lowest in financial bid does not mean that the contract/ purchase order will be awarded. Following factors may also be taken into account before award of purchase order.
  - i. Previous performance of supplier against any IST order.
  - ii. Reliability.
  - iii. Technical/ Financial capabilities.
  - iv. Acceptance of terms & conditions of tender.
25. IST may ask the lowest bidder to provide a “Certificate” that firm has never been black listed which will be submitted on stamp paper of valuing Rs. 20/-
26. **Failure & Termination:** Incase the supplier / contractor failed to deliver the stores within specified delivery period, IST shall have the following options:-
  - i. To recover liquidated damages @ 2% of total purchase order value per month or part thereof will be imposed. The maximum limit of liquidated damages will not exceed 10% of contract value. Such damages shall be recovered from the bills, bid security

and or by withholding any amount due to be paid against this or any other purchase order.

- ii. To purchase from elsewhere, without notice to you but at your risk and cost, the stores not delivered within the stipulated period and to recover excess value so paid by us from your bills or from your security and or to cancel the contract at your risk and cost.

27. **Blacklisting:** If the supplier failed to execute order as per laid down terms and conditions in the tender/order or the performance is not satisfactory or are found to be indulging in corrupt or fraudulent practices, the action for blacklisting of firm/ supplier/ contractor will be taken as per PPRA rule 19. In case of any dispute, the case will be referred to Vice Chancellor (IST), whose decision will be final.
28. Both technical and financial offers must be submitted in two separate sealed envelopes. Each envelop should contain the documents as under.
29. Supplier should be authorized distributor/reseller of OEM
- 30.

<b>Technical Offer:</b>	<b>Financial Offer:</b>
1. Technical quotation on letter head without prices.	i. Quotation on letter head with prices.
2. Format of bid as per Annexure-C (attached).	ii. Format of bid as per Annexure-D (attached).
3. Bid security be submitted as follows; <b>[03 % bid security (Photocopy with values hidden)]</b>	
4. <b>Rs. 2,000/-</b> as Tender Fee.	

31. IST reserves the rights to accept or reject any or all tenders as a whole or in part as per PPRA Rule 33 (1). The decision in this regard will be firm final and binding on all bidders.

**(Ahmed Hassan)**  
Deputy Director (Procurement)  
Institute of Space Technology, Islamabad

### Technical Offer

RFQ-2526-00024-L

Date: 23.09.2025

Due On: 15.10.2025

Item	Equipment	Qty.	Specifications
1	Sputter Coater Preferably (Model: CCU-010 HV Safematic GmbH or Equivalent, Make: Switzerland, EU, Chinese, Japanese, Korean)	01	<p><b>Sputter Coater (Preferably (Model: CCU-010 HV Safematic GmbH or Equivalent, Make: Switzerland, EU, Chinese, Japanese, Korean)</b></p> <p>HV vacuum (Turbo) coating unit of high quality suitable for SEM samples with necessary safety and control system</p> <p>(i) SPUTTER COATER for Gold (Au)/ Platinum (Pt)</p> <p>(ii) Carbon coating unit</p> <p>Complete oil-free high vacuum pumping system;</p> <p>final vacuum &lt;2 x 10 – 6mbar; pirani- and magnetron vacuum gauge measuring system; table (080mm); tilt and height adjustable; film thickness monitor; usable in two positions (center, border); glass reaction cylinder (120mm); implosion guard and safety monitoring; 5.7 tft-touch graphical display</p> <p>2) SP-010 sputter head for use with basic CCU-010 hv: automatic target-shutter; electronic controlled process vacuum; target cooling including temperature monitoring; for use with 54mm dia targets up to 3mm thickness; implosion guard safety monitoring</p> <p>3) RS-010 rotary table for use with basic unit CCU-010 hv: dimensions (d x h): 80 x 23mm; speed: 1.5min<sup>-1</sup>-20 min<sup>-1</sup></p> <p>4) Sputtering target gold (au) 54 x 0.2mm purity 99.99% (Qty-5)</p> <p>Sputtering target Tungsten (W) 54 x 1mm purity 99.99% (Qty-5)</p> <p>5) Source of C and C-Pladium, Quartz crystal; set of 10</p> <p>6) Glass chamber with scale bar id = 105mm; l = 106mm additional vacuum chamber for separation of metal and carbon coating to avoid cross contamination</p> <p>7) Standard stage dia 80 mm</p> <p>8) 13mm Dia stubs (Qty18)</p> <p>9) 25.4mm Dia stubs (Qty6)</p> <ul style="list-style-type: none"> <li>• Efficient support by OEM through remote access to equipment parameters and software if required.</li> <li>• <b>Operation, Service, Maintenance and Calibration Manuals</b></li> <li>• • Soft and hard copy of the operation, service &amp; maintenance manuals including activation keys, passwords; parts catalogue; error code &amp; parameters list should be provided.</li> <li>• • <b>Availability of spares parts.</b> The vendor has to guarantee the availability of attachments, spares support, repair and free of cost update throughout life of Equipment.</li> <li>• <b>Update of Software and Manuals should be free of cost with</b> provision of passwords throughout life of equipment. Complete backup of equipment system</li> </ul>

			<p>software with interfacing &amp; diagnostic software and drives.</p> <ul style="list-style-type: none"> <li>• <b>Installation &amp; training</b></li> <li>• Free of cost on-site installation, maintenance and troubleshooting training for at least 04 persons from faculty will be given in IST from OEM expert.</li> <li>• Verification of performance at the time of training.</li> <li>• All charges within Pakistan till delivery in IST including port clearances and taxes should be mentioned in quote.</li> <li>• Testing of the standard samples to validate the specifications.</li> <li>• Preferably Warranty for 5 years</li> <li>• Should not require update in software on payment (It should be life time valid)</li> <li>• Organizations where the equipment or its closest model has been supplied in Pakistan; name and contact number of the end user. Services provided to the end user since it has been sold; include maintenance; calibration; supply of spares and, or attachments.</li> </ul> <p>Note: Above mentioned specifications are desirable for the selection of the equipment</p>
2	Scanning Electron Microscope with EDS Preferably Model: ZEISS, Jeol or Equivalent Make: EU, Germany, China, Korea	01	<p><b>Scanning Electron Microscope with EDS</b> System should be able to operate into high vacuum with SE, BSE and EDS detectors for fracture analysis application. With following specs or closest alternate without compromising functionality</p> <ul style="list-style-type: none"> <li>✂ <b>Electron gun:</b> Tungsten Filament</li> <li>✂ <b>Resolution:</b> 2.5 nm @ 20 kV, SE</li> <li>✂ 4 nm @ 3 kV, SE</li> <li>✂ 5 nm @ 1 kV, SE</li> <li>✂ 4 nm @ 30 kV, BSE</li> <li>✂ <b>Accelerating Voltage:</b> 0.3 to 30kV or better</li> <li>✂ <b>Magnification:</b> Should be upto 300,000x or better</li> <li>✂ <b>Objective Aperture:</b> Electromagnetic or 3 stages with XY fine control (E</li> <li>✂ Specimen Chamber and sample size :</li> <li>✂ Chamber Size desirably: width x depth x height = 335 x 290 x 270 mm or closest (to accommodate sample height upto 200 mm).</li> <li>✂ Stage Automatic Five Axis: X/Y: 120mm, Z:50 mm or closest; T: -10° ~90°; R: 360° Continuously adjustable or closest</li> </ul> <p>(Kindly provide details of closest/larger chamber size; indicate maximum allowable sample sizes i.e. sample height, rotation and tilting.)</p> <p><b>Vertical camera</b> Optical navigation, vertical angle camera</p> <p><b>Horizontal camera</b> Real-time monitoring in the sample warehouse, horizontal</p>

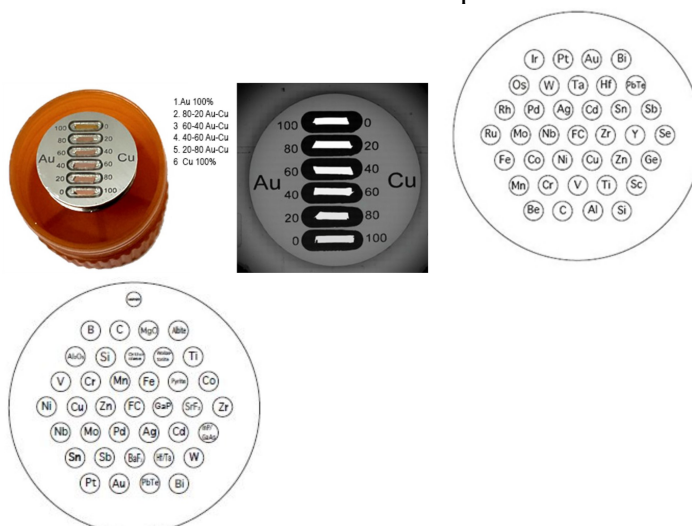


camera

- ✎ Color Navigation camera for stage navigation
- ✎ In MIX mode, each detector receives pure SE or BSE signals respectively. For example, the signals of ETD and BSED detectors are automatically mixed according to the needs, and the ratio is adjustable.
- ✎ Automatic adjustment function: automatic focus, automatic astigmatism, automatic brightness contrast, etc.

- ✎ **EDS: Make and Model:** Dry (without using liquid nitrogen) Micro-analysis system. with complete software for elemental mapping, line profiles and image analysis. Kindly provide following

EDS Quantitative EDX analysis test standard with Au-Cu alloys, 6 NIST certified materials, EDS Standard Block (Alloys) and EDS Standard Block 36 metals/compounds



#### ✎ Detectors:

- SE (Secondary Electron Detector)
- BSD (Backscattered Electron Detector)
- Retractable
- (Provide details of detector types, area etc, available options)
- ✎ Calibration Systems for imaging, Standards
- ✎ Provide Accuracy, Reproducibility and detection limits
  - **Energy resolution:** 129/130 eV or better with sensor size of 30mm<sup>2</sup> or better.
  - Detectable element range shall be Be4 to U94 at least
  - EDS Standard block is must
  - Integrated Live color imaging based on elemental composition must be part of the system.
- ✎ **Software** – user friendly, preferably MS Windows based
- ✎ User guidance for beginners should be part of the system.
- ✎ Mapping software for large area acquisition with resolution 16Kx16K (or closest available) with automatic stitching and tiling.
- ✎ Online diagnostic support should be available.
- ✎ Drift compensation should be part of the software to avoid

			<p>drifts in imaging</p> <ul style="list-style-type: none"> <li>✎ Appropriate system for minimizing charge effect</li> <li>✎ <b>Image display system:</b> Windows 10 compatible, two 24 inch LEDs. 55 inch LED Screen, compatible with the SEM hardware and Software</li> <li>✎ <b>Vacuum System:</b> Fully automatic UHV vacuum system with IGP, TMP and Rotary pumps.</li> <li>✎ <b>Other Requirements</b></li> <li>✎ Dry nitrogen cylinders for purging the chamber</li> <li>✎ Objective aperture, filament pre-centering assembly</li> <li>✎ Provide options for different sample holders (for holding wires, big and irregular samples)</li> <li>✎ 200 Tungsten filaments</li> <li>✎ Sample holders/ vices to be quoted as options along with the sketches</li> <li>✎ Trackball &amp; Knob Control Panel (As Option)</li> <li>✎ Carbon and copper conductive tapes of various size,</li> <li>✎ Conductive carbon and silver paste</li> <li>✎ Hardware control panel with rotary controls for Improved manual feedback and more intuitive control during imaging</li> <li>✎ Ease of use features – auto saturation, auto align, sample selection &amp; automated imaging.</li> <li>✎ Plasma Cleaner</li> <li>✎ <b>Printer:</b> Color Inkjet Printer</li> <li>✎ <b>Computer:</b> Latest computer((i7), with standard computer tables, 02 standard LEDS and one, 55 inch LED Screen, compatible with the SEM hardware and Software</li> <li>✎ <b>UPS:</b> True online UPS compatible with equipment power requirement.</li> <li>✎ <b>Operation, Service, Maintenance and Calibration Manuals</b></li> <li>✎ Soft and hard copy of the operation, service &amp; maintenance manuals including activation keys, passwords; parts catalogue; error code &amp; parameters list should be provided</li> <li>✎ <b>Availability of spares.</b> The vendor has to guarantee the availability of attachments, spares support, repair and free of cost update throughout life of SEM.</li> <li>✎ <b>Update of Software and Manuals should be free of cost with</b> provision of passwords throughout life of SEM. Complete backup of machine system software including with interfacing &amp; diagnostic software and drives.</li> <li>✎ Should not require update in software on payment (It should be life time valid)</li> <li>✎ <b>Installation &amp; training</b></li> <li>✎ Necessary Site preparation will be provided by supplier</li> <li>✎ TWO Free of cost trainings. First training: on-site Installation, commissioning, maintenance and troubleshooting TWO weeks training for at least 04</li> </ul>
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			<p>persons from faculty will be given in IST from OEM expert. (ii) Repeat Training after few months of use</p> <ul style="list-style-type: none"> <li>✎ SIX visits of technical personnel of supplier (3 planned and 3 emergency) during guarantee period after successful installation and initial training.</li> <li>✎ Pre-installation requirement (civil &amp; electrical EMI and gas, etc.) should be mentioned along with offer. Free survey of vibration and EMI at site and provide the results of the survey and the necessary modifications if required for achieving best results.</li> <li>✎ Verification of Detectors and EDS performance by testing Certified Reference Materials (CRMs) at the time of equipment installation, for the supplied Calibration and Analytical Solution Packages, should be the part of installation, commissioning.</li> <li>✎ Details of optional accessories; attachments and necessary spares.</li> <li>✎ Efficient support by OEM through remote access to instrument parameters and software if required.</li> <li>✎ All charges within Pakistan till delivery in IST including port clearances and taxes should be mentioned in quote.</li> <li>✎ Testing of the standard samples to validate the specifications.</li> <li>✎ Preferably Warranty for 05 years</li> <li>✎ Kindly share detailed breakdown of all items separately.</li> <li>✎ List of Organizations where the equipment or its closest model has been supplied in Pakistan; name and contact number of the end user. Services provided to the end user since it has been sold; include maintenance; calibration; supply of spares and, or attachments.</li> </ul> <p>Note: Above mentioned specifications are desirable for the selection of the equipment</p>
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**Undertaking:**

I/We, agree with the terms/conditions of tender inquiry. We have carefully read the terms and conditions mentioned in tender documents. We accept all these conditions.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Stamp: \_\_\_\_\_

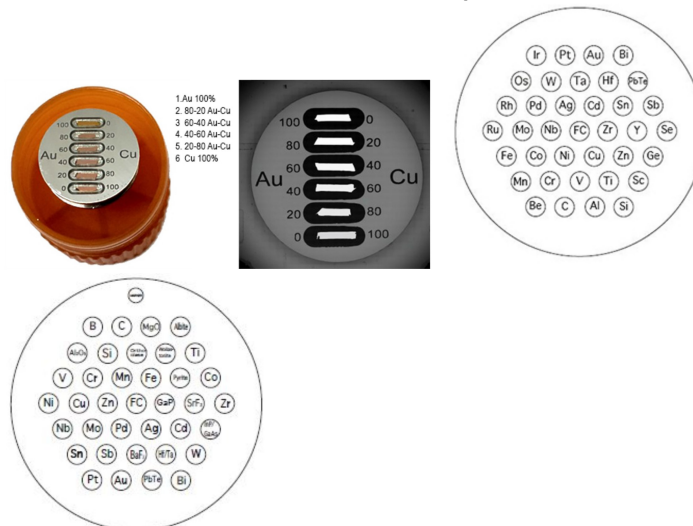
**(To be Printed On Company's Letterhead)**

**Financial Offer**
**RFQ-2526-00024-L**
**Date: 23.09.2025**
**Due On: 15.10.2025**

Item	Equipment	Qty.	Specifications	Quoted Price
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			<p>equipment. Complete backup of equipment system software with interfacing &amp; diagnostic software and drives.</p> <ul style="list-style-type: none"> <li>• <b>Installation &amp; training</b></li> <li>• Free of cost on-site installation, maintenance and troubleshooting training for at least 04 persons from faculty will be given in IST from OEM expert.</li> <li>• Verification of performance at the time of training.</li> <li>• All charges within Pakistan till delivery in IST including port clearances and taxes should be mentioned in quote.</li> <li>• Testing of the standard samples to validate the specifications.</li> <li>• Preferably Warranty for 5 years</li> <li>• Should not require update in software on payment (It should be life time valid)</li> <li>• Organizations where the equipment or its closest model has been supplied in Pakistan; name and contact number of the end user. Services provided to the end user since it has been sold; include maintenance; calibration; supply of spares and, or attachments.</li> </ul> <p>Note: Above mentioned specifications are desirable for the selection of the equipment</p>	
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Color Navigation camera for stage navigation  
 In MIX mode, each detector receives pure SE or BSE signals respectively. For example, the signals of ETD and BSD detectors are automatically mixed according to the needs, and the ratio is adjustable.  
 Automatic adjustment function: automatic focus, automatic astigmatism, automatic brightness contrast, etc.  
**EDS: Make and Model:** Dry (without using liquid nitrogen) Micro-analysis system. with complete software for elemental mapping, line profiles and image analysis.  
 Kindly provide following  
 EDS Quantitative EDX analysis test standard with Au-Cu alloys, 6 NIST certified materials, EDS Standard Block (Alloys) and EDS Standard Block 36 metals/compounds



#### Detectors:

- SE (Secondary Electron Detector)
- BSD (Backscattered Electron Detector)  
Retractable
- (Provide details of detector types, area etc, available options)

Calibration Systems for imaging, Standards

Provide Accuracy, Reproducibility and detection limits

- Energy resolution:** 129/130 eV or better with sensor size of 30mm<sup>2</sup> or better.
- Detectable element range shall be Be4 to U94 at least
- EDS Standard block is must
- Integrated Live color imaging based on elemental composition must be part of the system.

**Software** – user friendly, preferably MS Windows based

User guidance for beginners should be part of the system.

Mapping software for large area acquisition with resolution 16Kx16K (or closest available) with automatic stitching and tiling.

Online diagnostic support should be available.

Drift compensation should be part of the software to avoid drifts in imaging

Appropriate system for minimizing charge effect

**Image display system:** Windows 10 compatible, two 24

			<p>inch LEDs. 55 inch LED Screen, compatible with the SEM hardware and Software</p> <p>✎ <b>Vacuum System:</b> Fully automatic UHV vacuum system with IGP, TMP and Rotary pumps.</p> <p>✎ <b>Other Requirements</b></p> <p>✎ Dry nitrogen cylinders for purging the chamber</p> <p>✎ Objective aperture, filament pre-centering assembly</p> <p>✎ Provide options for different sample holders (for holding wires, big and irregular samples)</p> <p>✎ 200 Tungsten filaments</p> <p>✎ Sample holders/ vices to be quoted as options along with the sketches</p> <p>✎ Trackball &amp; Knob Control Panel (As Option)</p> <p>✎ Carbon and copper conductive tapes of various size,</p> <p>✎ Conductive carbon and silver paste</p> <p>✎ Hardware control panel with rotary controls for Improved manual feedback and more intuitive control during imaging</p> <p>✎ Ease of use features – auto saturation, auto align, sample selection &amp; automated imaging.</p> <p>✎ Plasma Cleaner</p> <p>✎ <b>Printer:</b> Color Inkjet Printer</p> <p>✎ <b>Computer:</b> Latest computer((i7), with standard computer tables, 02 standard LEDS and one, 55 inch LED Screen, compatible with the SEM hardware and Software</p> <p>✎ <b>UPS:</b> True online UPS compatible with equipment power requirement.</p> <p>✎ <b>Operation, Service, Maintenance and Calibration Manuals</b></p> <p>✎ Soft and hard copy of the operation, service &amp; maintenance manuals including activation keys, passwords; parts catalogue; error code &amp; parameters list should be provided</p> <p>✎ <b>Availability of spares.</b> The vendor has to guarantee the availability of attachments, spares support, repair and free of cost update throughout life of SEM.</p> <p>✎ <b>Update of Software and Manuals should be free of cost with</b> provision of passwords throughout life of SEM. Complete backup of machine system software including with interfacing &amp; diagnostic software and drives.</p> <p>✎ Should not require update in software on payment (It should be life time valid)</p> <p>✎ <b>Installation &amp; training</b></p> <p>✎ Necessary Site preparation will be provided by supplier</p> <p>✎ TWO Free of cost trainings. First training: on-site Installation, commissioning, maintenance and troubleshooting TWO weeks training for at least 04 persons from faculty will be given in IST from OEM expert. (ii) Repeat Training after few months of use</p> <p>✎ SIX visits of technical personnel of supplier (3 planned</p>	
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			<p>and 3 emergency) during guarantee period after successful installation and initial training.</p> <ul style="list-style-type: none"> <li>✎ Pre-installation requirement (civil &amp; electrical EMI and gas, etc.) should be mentioned along with offer. Free survey of vibration and EMI at site and provide the results of the survey and the necessary modifications if required for achieving best results.</li> <li>✎ Verification of Detectors and EDS performance by testing Certified Reference Materials (CRMs) at the time of equipment installation, for the supplied Calibration and Analytical Solution Packages, should be the part of installation, commissioning.</li> <li>✎ Details of optional accessories; attachments and necessary spares.</li> <li>✎ Efficient support by OEM through remote access to instrument parameters and software if required.</li> <li>✎ All charges within Pakistan till delivery in IST including port clearances and taxes should be mentioned in quote.</li> <li>✎ Testing of the standard samples to validate the specifications.</li> <li>✎ Preferably Warranty for 05 years</li> <li>✎ Kindly share detailed breakdown of all items separately.</li> <li>✎ List of Organizations where the equipment or its closest model has been supplied in Pakistan; name and contact number of the end user. Services provided to the end user since it has been sold; include maintenance; calibration; supply of spares and, or attachments.</li> </ul> <p>Note: Above mentioned specifications are desirable for the selection of the equipment</p>	
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**Undertaking:**

I/We, agree with the terms/conditions of tender inquiry. We have carefully read the terms and conditions mentioned in tender documents. We accept all these conditions.

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Stamp: \_\_\_\_\_

**(To be Printed On Company's Letterhead)**





**(To be Printed and Typed On Company's Letterhead)**

**FORMAT FOR BID**

1. Tender Fee PO/DD No. : \_\_\_\_\_
2. Tender Fee PO/DD dated : \_\_\_\_\_
3. Bid Security PO/DD No. : \_\_\_\_\_
4. Bid Security PO/DD dated : \_\_\_\_\_
5. Bid Security PO/DD issued by  
(Bank Name) : \_\_\_\_\_
6. Complete Technical specifications  
& catalog attached : \_\_\_\_\_ YES/NO
7. Delivery Schedule : \_\_\_\_\_
8. Validity of Acceptance : \_\_\_\_\_
9. Country of Origin. : \_\_\_\_\_
10. Profile of firm for performing such  
Project. (Attached) : \_\_\_\_\_ YES/NO
11. Free of cost onsite installation/  
Commissioning & Training : \_\_\_\_\_ MANDATORY
12. Performance Bond to be provided. : \_\_\_\_\_ MANDATORY
13. Guarantee/Warranty. : \_\_\_\_\_ 5-Year
14. Warranty response time and replacement time. : \_\_\_\_\_ YES/NO
15. Owner name : \_\_\_\_\_  
Owner E-mail : \_\_\_\_\_  
Owner Contact Number : \_\_\_\_\_
17. Company full address : \_\_\_\_\_  
Contact Person : \_\_\_\_\_  
Cell # : \_\_\_\_\_  
E-mail : \_\_\_\_\_
15. Acceptance of terms & conditions of tender : \_\_\_\_\_ YES/NO

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Signature & Seal



**(To be Printed and typed On Company's Letterhead)**

**Annexure – D**

RFQ-2526-00024-L

Date: 23.09.2025

Due On: 15.10.2025

**FORMAT FOR BID**

1. Tender Fee PO/DD No. : \_\_\_\_\_
2. Tender Fee PO/DD dated : \_\_\_\_\_
3. Bid Security PO/DD No. : \_\_\_\_\_
4. Bid Security PO/DD dated : \_\_\_\_\_
5. Bid Security PO/DD issued by : \_\_\_\_\_  
(Bank Name)
6. Complete Technical specifications : \_\_\_\_\_  
& catalog attached YES/NO
7. Delivery Schedule : \_\_\_\_\_
8. Validity of Acceptance : \_\_\_\_\_
9. Country of Origin. : \_\_\_\_\_
10. Profile of firm for performing such : \_\_\_\_\_  
Project. (Attached) YES/NO
11. Free of cost onsite installation/ : \_\_\_\_\_  
Commissioning & Training MANDATORY
12. Performance Bond to be provided. : \_\_\_\_\_ MANDATORY
13. Guarantee/Warranty. : \_\_\_\_\_ 5-Year
14. Warranty response time and replacement time. : \_\_\_\_\_ YES/NO
15. Owner name : \_\_\_\_\_  
Owner E-mail : \_\_\_\_\_  
Owner Contact Number : \_\_\_\_\_
17. Company full address : \_\_\_\_\_  
Contact Person : \_\_\_\_\_  
Cell # : \_\_\_\_\_  
E-mail : \_\_\_\_\_
15. Acceptance of terms & conditions of tender : \_\_\_\_\_ YES/NO

**Sign & Seal**