



भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद

धनबाद, झारखण्ड, भारत, पिन-826004

(शिक्षा मंत्रालय, भारत सरकार के अधीन राष्ट्रीय महत्व का एक संस्थान)

INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD

DHANBAD, JHARKHAND, INDIA, PIN-826004

(An Institute of National Importance under Ministry of Education, Govt. of India)

STORES & PURCHASE SECTION Phone:(0326) 2235678 || Email : purchase@iitism.ac.in || Website : www.iitism.ac.in

No. CR-INS-175-23-24

Date: 12 December 2023

Request for Quotation

To,

Subject: Supply & Installation of Load lock attachment with vacuum quite mode upgrade kit for the existing Zeiss Sigma 300 FESEM, Energy Dispersive spectroscopy (EDS) detector attachment for the existing Zeiss Sigma 300 FESEM, Backscattered Electron (BSE) detector attachment for the existing Zeiss Sigma 300 FESEM

Sirs

Indian Institute of Technology (Indian School of Mines), Dhanbad is interested in the purchase of the materials/ equipment listed below:

Sl.No.	Detailed Specifications	Quantity
1	Supply & Installation of Load lock attachment with vacuum quite mode upgrade kit for the existing Zeiss Sigma 300 FESEM (Specification in Annexure –II)	01 No
2	Supply & Installation of Energy Dispersive spectroscopy (EDS) detector attachment for the existing Zeiss Sigma 300 FESEM (Specification in Annexure –II)	01 No
3	Supply & Installation of Backscattered Electron (BSE) detector attachment for the existing Zeiss Sigma 300 FESEM (Specification in Annexure –II)	01 No

INSTRUCTIONS:

- 1) Please attach relevant technical literature of the item.
- 2) Please fill the attached form 01 regarding the class of supplier.
- 3) Please mention the warranty/ guarantee period in your offer. Equipment/ material supplied must have a minimum warranty/ guarantee of **24 months**.
- 4) Please attached authorization certificate from OEM.
- 5) Please mention after-sales service information in your offer.
- 6) **Please attach a certificate that the quoted price is not more than that of any other Govt. organization/ institution in India. This has to be mentioned in the offer letter.**
- 7) The rates should be quoted for each item separately as per the price schedule attached as Annexure I (A) & (B). The comparison between the indigenous and the foreign offers shall be made on a FOR destination basis and CIF/CIP basis respectively. However, the CIF/CIP prices quoted by any foreign bidder shall be loaded further as under:
-Towards customs duty, IGST, and other statutory levis, custom clearance, inland transportation, currency fluctuation, etc. – 30% of the CIF/CIP value. -Duties & taxes, if applicable, are to be shown separately clarifying whether those are extra or included in the price. Price bids of only technically qualified tenderers shall be opened in their presence on a pre-notified date and time.
- 8) The items/ materials shall be required to be delivered at CRF Department of IIT (ISM) Dhanbad at the risk and cost of the tenderer.
- 9) Your tender must be **valid for a minimum 120 days** from the date of opening of tender.
- 10) The stores are required to be delivered within 30 days, late delivery may not be accepted.
- 11) Full details of stores offered should be given in the tender along with supporting & relevant literature/ Technical Literature.
- 12) The items offered should be of good quality confirming to BIS standards, wherever applicable.
- 13) **Advance payment is not admissible.** Payment shall normally be made within 3-4 weeks subject to receipt and acceptance & installation (as per Purchase Order Terms) of the ordered materials/items.
- 14) In the event of the supplier failed to supply the materials or install the same as contractual condition, IIT (ISM) Dhanbad shall have the right to deploy suitable agency/ third party to get the job completed at the risk and cost of the supplier.
- 15) Tender may please be submitted **in sealed cover only superscribed with Enquiry No. CR-INS-175-23-24 latest by 01.01.2024.**
- 16) The offer must be submitted in the office of the Deputy Registrar (Purchase & Stores), IIT (ISM), Dhanbad– 826004 (Jharkhand, India) only. Please send your offer by Regd.Post/ Speed Post/ Courier along with Courier receipt. Tender/ quotation will be received during IIT (ISM) Dhanbad working hours only (i.e. Monday to Friday). In any circumstances,



GSTIN : 20AAAAI0686D1ZA

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hand delivery is not acceptable. Late or delayed tenders shall be summarily rejected. Bids sent through Email/Fax or submitted in unsealed cover(s) will not be accepted and such bids will be treated as non-responsive bids.

- 17) **Performance Bank Guarantee:** A bank guarantee issued by a Nationalized Bank in India towards PBG for an amount equal to 10% of the total value of the purchase order and valid till the period beyond two months of completion of the warranty period should be submitted in favor of **Registrar, IIT (ISM) Dhanbad.**
- 18) For any other information that you may like to obtain, you are free to contact IIT (ISM) Dhanbad before submission of tender.
- 19) IIT (ISM) Dhanbad reserves the right to accept and/or reject any/all tenders without assigning any reason.
- 20) **Payment:** will be made within 30 days after satisfactory supply, inspection, installation/commissioning/satisfactory services & acceptance and on submission of pre-receipted tax invoice, delivery challan, warranty certificate, and installation report in triplicate
- 21) **Please attach purchase order copies of the same equipment that you have supplied to any other Govt., public sector, and autonomous institutions.**
- 22) **a) In a tender, either the Indian agent on behalf of the principal/ OEM or the principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.**
b) If an agent submits a bid on behalf of the principle/ OEM, the same agent shall not submit a bid on behalf of another principle/ OEM in the same tender for the same item/product.



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Annexure –I (A)**1. PRICE SCHEDULE FOR GOODS BEING OFFERED WITHIN INDIA**

Name of the Bidder _____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Full Description of items with (HSN Code/SAC Code)	Quantity	Unit Price (in INR)	Total Amount (in INR)
1.				
2.				
3.				
Ex-Works Price-				
Packing & Forwarding				
Transportation				
GST/IGST (as applicable %)				
Insurance up to Destination/handover (in case of fabrication)				
Installation & Commissioning charge				
Training charges, if any				
FOR (IIT ISM) Dhanbad				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				

*(On the basis of the technical specifications submitted)

Total Bid Price _____

in words _____

Note:

(a) The Price schedule of optional items shall be indicated in a separate sheet in the same Performa.

(b) Cost spare parts may be indicated separately

Signature of Bidder

Name _____

Business

Address _____



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Annexure –I (B)**2. PRICE SCHEDULE FOR GOODS BEING OFFERED FROM ABROAD**

Name of the Bidder _____

NIT Reference No. _____

File Reference No. _____

Sl. No.	Description/Part No./Make Model	Quantity	Unit Price (in foreign currency)	Total Amount (in foreign currency)
1.				
2.				
3.				
Total Ex-Works Price-				
Packing & Forwarding and inland freight				
*FCA (at port)				
Terminal charges, loading on vassal				
**FOB (name of port)				
Air freight & insurance up to destination port				
*CIF				
Carrier charges & insurance up to final destination				
**CIP				
Concessional Custom Duty (Against DSIR Certificate)				
IGST rate (Against IIT (ISM) Certificate)				
Other Duties taxes/clearance charge, if any				
Transportation charges up to IIT ISM Dhanbad				
Chargeable weight/Gross weight of consignment				
Indian agency Commission (%)				
Installation & Commissioning charge				
Training charges, if any				
Additional Warranty Charges, if any				
Annual Maintenance Charge, if any				
Educational discounts, if any				

*&*** Mandatory requirement

Total Bid Price_____ in words_____

Note:

Total Bid price in foreign currency _____ in words

(a) Indian agent name & address _____

(b) Installation, commissioning & training charges, if any _____

(c) Please note that Indian agents' commission shall be paid in Indian Rupees only.

(d) Banker's details such as Name of the account holder, Account Number, Name of Bank, Branch code, RTGS code, NEFT code, SWIFT code etc.

(f) Price schedule of optional items shall be indicated in a separate sheet in the same performa.

(g) Quoting Price for FOB/FCA and CIF/CIP basis, otherwise bid will be rejected.

(h) Wherever the price quoted on FOB/FCA and CIF/CIP basis are the same, the contract would be made on CIF/CIP basis only.

(i) Country of Origin Dimension and Gross Weight must be provided.

Signature of Bidder

Name _____

Business Address _____



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Form-1

Declaration by bidder

(Please specify the Class of Supplier and Local Content percentage)

In accordance and manner as specified in Order No. P45021/2/2017-PP (BE-II) dated: 04th June 2020 and 2nd March 2021 issued by DIPP, Ministry of Commerce and Industries, GoI.

To,

The Director,

Indian Institute of Technology (Indian School of Mines)

Dhanbad -826004

Respected Sir,

By the order No. P-45021/2/2017-PP (BE-II) dated 04th June 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 I hereby declare that

I am aware of all provisions mentioned in Tender No. CR-INS-175-23-24 as well as order No. P-45021/2/2017-PP (BE-II) dated 04th June 2020 and P-45021/2/2017-BE-II-Part (1) (E-50310) dated 4th March 2021 and abides by the same.

I declare that for this tender, I am a Class-I local supplier / Class-II local supplier / Non-local supplier (Strike out whichever is not applicable) and classification is based on the local content of goods/services/work offered by the bidder in this tender.

Local content (in percentage) in offered goods/services/work is: _____%

Whereas 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

The services such as transportation, insurance, installation, commissioning, training, and after-sales service support like ACM/CMC, etc. are not included as Local content in case of imported products.

The local content for all inputs which constitute the said goods/services/works has been verified and the bidder is responsible for the correctness of the claims made therein.

Date:

Signature:

Name of Authorized Signatory:

Name of Bidder:

Seal of Bidder:

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Annexure –II**Tender Specifications for the items**

CRF IIT(ISM), Dhanbad, is looking for a Load-lock, an EDS detector, and a BSE detector compatible with the existing Sigma 300 FESEM system. The exterior of the system should be class 1000 clean room compatible. Specifications for the said items are as follows. Vendors are required to quote for the said system with all required accessories including those mentioned in the specifications.		
1.	Load lock attachment with vacuum quite mode upgrade kit for the existing Zeiss Sigma 300 FESEM	<ul style="list-style-type: none">• Should be able to accommodate samples up to 60 mm or better• Should be compatible and attachable with the existing Zeiss Sigma 300 FESEM system• Should minimize the loading time of samples up to a factor of 3 or higher• The control should be easily accessible on the load-lock interface as well as on the Zeiss Sigma 300 FESEM system software• Should be supplied with Vacuum Quite Mode upgrade kit for reducing power consumption and pump noise induced vibration of the FESEM. The pre-pump of the FESEM should be automatically switched off after a threshold vacuum level.
2.	Energy Dispersive Spectroscopy (EDS) detector attachment for the existing Zeiss Sigma 300 FESEM	<ul style="list-style-type: none">• Should be a state-of-art EDS system• Should be seamlessly get integrated with the Zeiss Sigma 300 FESEM system• It should be a SDD type EDS detector• Should have a detector area of 70 mm² or more• Detector window should made by Si₃N₄• The Energy resolution for Mn-Kα and carbon should be at least 127eV and 50 eV respectively.• The EDS detector should be able to handle high input count rate of at least 1.5 M input counts per second.• The EDS must be plasma cleaner compatible• Should offer a high-count rate for Elemental Analysis and Mapping applications• Detection Range of detector should be at least from Be to Am• The detector must guarantee the detection of Aluminum and Silicon L Lines• The EDS should be able to do quantitative as well as qualitative analysis• The EDS operations must be controlled from a dedicated software installed in a separate PC provided by the vendor• The EDS software must have the software functions like – mapping, point Id, Line scan, multipoint, drift correction etc.
3.	Backscattered Electron (BSE) detector attachment for the existing Zeiss Sigma 300 FESEM (Specification is attached as Annexure-1).	<ul style="list-style-type: none">• Should be seamlessly get integrated with the Zeiss Sigma 300 FESEM system.• The BSE should have an option for angle selection• Should be able to measure at low acceleration voltage• Should be able to image at different contrast levels• Should be able to produce an image by mixing the signal with other detector(s)• Should exhibit long-term temperature stability• Should be completely integrated with the pole piece• There should not be any requirement for alignment with the optical axis• Control for the detector should be integrated with the control software for Zeiss Sigma 300 FESEM



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4.	Warranty	Warranty for the entire system should be for two years from the date of successful installation and commissioning.
5.	Installation and commissioning	The installation and commissioning of the entire system must be done by your factory-trained engineer at free of cost.
6.	Training on the complete system	<ul style="list-style-type: none">After successful installation and commissioning of the system, the required operational training on the entire system must be provided on-site to the deputed personnel at no additional cost.
7.	Eligibility Criteria	<ul style="list-style-type: none">Vendor or its OEM must have supplied minimum 3 nos. of similar equipment to Government labs / Govt. Institutions / Universities etc. in India in the last 5 years.The offer needs to include a list of names of the organizations/ institutions / Universities / etc., with details of the user(s), where similar type equipment has been supplied earlier by the vendor.Organization or its Agent should have export experienceAll printed catalogue of the system and its accessories should be attached with the technical bid.Original invoice, Original Warranty Certificate and Original Test reports from OEM (if applicable) should be submitted for all the Imported Items at the time of deliveryShould be able to attend service call within 24 hours of a report.Should be able to provide a live video/physical demonstration of a similar system, installed in India, if asked by the purchase committeeCompliance statements (vis-à-vis) against all the parameters of the specification in tabular form must be provided along with the quotation. The technical literatures/brochures in support of compliance of the specifications should be included therewith. These statements and brochures must be duly signed and stamped by the authorized person of the company.
8.	Other Terms and Conditions	<ul style="list-style-type: none">Vendor must guarantee the regular supply of spares for the lifetime of the systemAll voltages should be compatible with Indian conditions (AC 220 volt \pm 10% V, with 50 Hz frequency) and similar conditions for three-phase supply, if required. Price should include Installation & Commissioning Charges.Price should be quoted as FOR, IIT(ISM) Dhanbad