

Minutes of the Pre bid meeting dated 26.11.2022 at 11.00 hours at BSIP, Lucknow

A pre bid meeting committee was constituted by The Director BSIP (Office Memorandum No. BSIP/Committee/2022-2023/L-1473; dated: 18 November 2022 and subsequent Note by the Registrar, BSIP via Director, BSIP; dated: 23 November 2022) to discuss the representations received from the vendors in relation to Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/ 02 for procurement of Micro-CT Equipment.

The committee meeting was called on the 26.11.2022 at 11.00 hours at BSIP, Lucknow

- (I) **Labmate (Asia) Pvt. Limited** (representing Bruker) participated in the pre-bid meeting represented by Mr Siva Kumar and Mr Vishnu Srivastava and had communicated (via Letter Vide No. LA/Bruker/BSIP/2022-23; dated 22nd November 2022; and email (to Registrar, BSIP) dated: 22nd November 2022; see documents enclosed herewith) some queries on the tender document and the same were clarified during the meeting (~11:45am to ~1:00pm).

Response from BSIP (As per vendor's Letter Vide No. LA/Bruker/BSIP/2022-23; dated 22nd November 2022; and email (to Registrar, BSIP) dated: 22nd November 2022):

1. As per the norms of the MSME, the firm is eligible for Tender Fee & EMD exemption. However, the latest Govt. of India norms in the matter shall be followed, in this regard. No change(s) have been incorporated in the revised Tender document.
2. The warranty period sought (as per the Technical Specification – Point 11.5 in the Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) is 1-year additional warranty along with the instrument warranty plus 3-year non-comprehensive AMC. Further details provided under Point 11.5 in the original Tender document. Minor change(s) have been incorporated in the revised Tender document as follows “A separate quote must be provided for 3 years non-comprehensive AMC. The 3-year AMC shall include a minimum of 2 maintenance visits per year and unlimited service/breakdown visits” for better readability.
3. The Heritage (Global and Local users) component i.e., Point 11.7 has been modified as follows: “The vendor must have installed minimum 3 qty Micro-CT equipment in India in the past 5 years. However, if there is no previous Micro-CT (quoted model/similar or higher specifications model) installation in India, the global installation may be considered provided that the firm provides 20% additional bank guarantee before opening of LC. Also refer to the financial terms and conditions in the tender document. The bidders also have to submit a performance certificate for the quoted model for a minimum one year of operation (in the last 5 years) from at least 3 users of a reputed PSU/Govt./Private Company in India/Globally. Training and local support certificate(s) should be provided by the vendor”.

Response from BSIP (As per discussions during the Pre-bid meeting held on 26th November 2022):

1. During the Pre-bid meeting, the vendor requested to increase the delivery period from 24 weeks (As per point no. 13 in Technical Specification). Taking into consideration the vendor's request, “Must deliver the equipment within 30 weeks from the date of issuance of AERB approvals” has been incorporated under Point 13 in the revised tender.
2. During the Pre-bid meeting the vendor requested to make minor modifications in Point no. 6 in Technical Specification provided in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02 so as to include Hardware/Software control.

Taking into consideration the vendor's request, "Hardware/Software control should be provided for operation and controlling of the equipment" has been incorporated under Point 6 in the revised tender.

3. During the Pre-bid meeting the vendor requested to provide full-form for DDA in Point no. 8.5 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02".

Taking into consideration the vendor's request, "Setting of Digital Detector Array parameters" has been incorporated under Point 8.5 in the revised tender.

4. During the Pre-bid meeting the vendor requested to mention the numerical values for the focal spot sizes for both Micro and Nano focus in Point no. 2.5 of Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02".

The representation has been rejected as the technical specifications have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, the Point no. 2.5 has been modified as follows "Preferable focal spot size certification must be mentioned and as per JIMA chart; JIMA chart (RT-CT01 or better standard) must be provided with the equipment" in the revised Tender document.

5. During the pre-bid meeting the vendor sought clarification on the CIP model.

As per the Point A "Supply Condition" under Local supplies in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02, the documents clearly state that "The Transportation to the installation site (BSIP, Lucknow) including loading, unloading, internal movement, positioning and commissioning of the equipment along with necessary insurance, as applicable". Further, tender document has been modified as follows "Vendor shall be responsible for customs clearance and if requested, BSIP (Lucknow) shall provide DSIR certificate and other related documents for custom clearance purpose. Further BSIP (Lucknow) shall not be liable for any demurrage charges, if they arise".

- (II) **ICON Analytical Equipment Pvt. Ltd** (representing M/s Sigray Inc, USA) participated in the pre-bid meeting represented by Mr Subranshu Chatterjee, Mr. Vijay and Mr. Abhishek Sharma and had communicated (via Letter Vide No. ICON/NR/BSIP/Letter/25112022; dated 26th November 2022; email (to Registrar, BSIP) dated: 25th November 2022; and subsequent Letter Vide No. ICON/NR/BSIP/Letter/25112022; dated: 28th November 2022; see documents enclosed herewith) some queries on the tender document and the same were clarified during the meeting (~1:05am to ~1:35pm).

Response from BSIP (As per vendor's Letter Vide No. ICON/NR/BSIP/Letter/25112022; dated 26th November 2022; Email to Registrar (BSIP); dated 25th November 2022; Letter Vide No. ICON/NR/BSIP/Letter/25112022; dated 28th November 2022):

1. As per point no. (a) raised in the letters/emails from the vendor, the representation made is not true and rejected.

The technical specifications have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, wherever required, minor modifications have been incorporated in the revised Tender document to have more participation of vendors.

2. As per point no. (b) raised in the letters/emails from the vendor, the representation made is not true and rejected.

The technical specifications have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, wherever required, minor modifications have been incorporated in the revised Tender document to have more participation of vendors.

3. As per point no. (c) raised in the letters/emails from the vendor, the representation made is not true and rejected.

The technical specifications have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. Further, the Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02” refers to material ‘steel’ a common density standard in 3D X-ray CT applications and this requirement is purely for demonstration of X-ray energy penetration capability only as all our application requirements are clearly spelt in the remaining portion of Point 1. However, point no. 1 has been minorly modified as “The equipment should be capable to allow penetration of X-rays at least 20mm of Tangential thickness of steel” for better readability.

4. As per point no. (d), raised in the letters/emails from the vendor, the vendor has requested to include particular specifications w.r.t (1) Tuneability of X-ray energies, (2) Flux of the system, (3) X-ray Optics with high-efficiency, (4) X-ray spot size, (5) Magnification type.

The representation has been rejected as the technical specifications have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, wherever required, minor modifications have been incorporated in the revised Tender document to have more participation of vendors.

Response from BSIP (As per discussions during the Pre-bid meeting held on 26th November 2022):

1. The vendor discussed the Heritage (Global and Local users) component i.e., Point 11.7 in the Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02 and requested to make major changes in the same as the vendor does not meet the overall criteria of the Heritage component mainly “the vendor must have installed minimum 5 qty Micro/Nano-CT equipment in India in the past 5 years of which minimum 1 must be of the equipment model quoted, the bidders also have to submit a performance certificate for the quoted model for a minimum one year of operation from a user of a reputed PSU/Govt./Private Company”.

Since, BSIP is inclined to procure an equipment which has been successfully tested and proven in the Indian/Global market, in this regard, the heritage point 11.7 has been modified as follows: “The vendor must have installed minimum 3 qty Micro-CT equipment in India in the past 5 years. However, if there is no previous Micro-CT (quoted model/similar or higher specifications model) installation in India, the global installation may be considered provided that the firm provides 20% additional bank guarantee before opening of LC. Also refer to the financial terms and conditions in the tender document”.

2. The vendor also discussed and mentioned the specifications of their company’s equipment pointwise (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) i.e., 2.1: Sealed Tube; 2.2: Only Nano focus capability (25W up to 160 KV); 2.3: 0.5 microns; 2.4: 100x x 400x and requested to make changes in the technical specifications accordingly.

As the above representation would make the vendor an exclusive participant, the representation has been rejected. Also, the technical specifications have been formulated and revised for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification.

- (III) Baker Hughes** (Representing M/s GE Oil & Gas India Pvt Ltd) participated in the pre-bid meeting represented by Mr Santanu Saha and had communicated (via Letter Vide No. WT/BSIP/IXS/25/11/2022/001; dated 25th November 2022 and email to Registrar (BSIP) & SO(S&P), BSIP dated 26th November 2022; document enclosed herewith) some queries on the tender document and the same were clarified during the meeting (~1:40pm to ~2:30pm).

Response from BSIP (Letter Vide No. WT/BSIP/IXS/25/11/2022/001; dated 25th November 2022 and email to Registrar (BSIP) & SO(S&P), BSIP dated 26th November 2022):

1. The sample size range under the Point 1 in (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been revised as “The CT equipment should be capable of scanning, inspecting and analysing geological and palaeontological specimens of the following size range: ~200 microns to 400 mm”.
2. The detector size configuration as per Point 3.1 in (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been changed as “400 x 250 mm (for both Micro- and nano focus) or better configuration” in the revised tender. However, the vendor’s request for change in the pixel size to 100 microns for detector as per point 3.3 has been rejected, as the original specifications state “150 micron or lower” under point 3.3 and limiting the pixel size to 100 microns may make the vendor an exclusive participant. Further, the vendor’s request is already covered in the technical specifications under Point 3.3.
3. Request from the vendor w.r.t. one of the points under Point 7 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been accepted and modified as “The controlling unit may have the following specifications or must have suitable configuration compatible with the quoted system” in the revised tender.
4. Request from the vendor w.r.t. Point 7.1 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been accepted and modified as “Intel Xeon-W2265 :12C or equivalent, 3.5GHz,19.25 MB Cache or suitable configuration compatible with the quoted system” in the revised tender to have more participation.
5. Request from the vendor w.r.t. Point 7.2 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been accepted and modified as “4 TB SSD or higher or suitable configuration compatible with the quoted system” in the revised tender to have more participation.
6. Request from the vendor w.r.t. Point 7.3 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been accepted and modified as “High end Graphics processor (16 GB graphic card or better) optimised for using analysis software and accelerated CT reconstruction and visualization or suitable configuration compatible with the quoted system” in the revised tender to have more participation.
7. Request from the vendor w.r.t. Point 7.5 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) has been accepted and modified as “8 GB or higher configuration” in the revised tender to have more participation.
8. Request from the vendor w.r.t. local supplies under HDD Point B2 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) to change to “240GB SATA SSD and 2TB SATA” has been rejected, so as to retain higher configuration workstation.
9. With regards to the request from the vendor w.r.t. local supplies under Humidity control or Dehumidifier equipment Point D (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02), it should be noted that BSIP shall directly reach OEM for repair. Thus, there is no change in the revised tender.
10. With regards to the request from the vendor w.r.t. local supplies under UPS Point E (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02), it should be noted that BSIP shall directly reach OEM for repair. Thus, there is no change in the revised tender.

Response from BSIP (As per discussions during the Pre-bid meeting held on 26th November 2022):

1. Apart from the points mentioned in the letter from the vendor (Letter Vide No. WT/BSIP/IXS/25/11/2022/001; dated 25th November 2022), the vendor requested to change the configuration of the Workstation for Reconstruction/Visualisation under local supplies Points B, B1, B2, B3, B4, B5 and B6.
The request has been rejected, so as to retain higher configuration of the workstation.

2. With regards to the vendor's request to remove the "breakdown" visit under Point 11.5 (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02), the revised tender document incorporates modifications under Point 11.5 as follows "A separate quote must be provided for 3 years non-comprehensive AMC. The 3-year AMC shall include a minimum of 2 maintenance visits per year and unlimited service/breakdown visits".

(IV) SAANS Analytical (Representing NEOSCAN) participated in the pre-bid meeting represented by Mr Sourav Das and Mr Santanu Sahu; verbally communicated some queries on the tender document and the same were clarified during the meeting (~2:45 pm to ~3:15 pm).

Response from BSIP (As per discussions during the Pre-bid meeting held on 26th November 2022):

1. The vendor raised the point that the Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02 is biased to a particular vendor and subsequently requested to change the technical specifications such that they meet the specifications for the demonstrated models/makes of NEOSCAN for participation in the tendering process. In this regard, the vendor discussed and mentioned the specifications of their company's equipment pointwise (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) i.e., 1. ~6 micron to 200mm; 2.1: Only Nano focus (open Type); 2.2. 160KV/16W (Nano focus only); 2.3. 0.4 micron (Nano focus only); 2.4. 400X (Nano focus only); 2.6. 60 nm; 3.1: 160 mm x 130 mm; 3.3. 15 micron or lower; 4.1. 300 mm (Height) x 200 mm (Diameter); 11.5: The company has installed few systems worldwide but no installations in India as the company is only about 3 years old.

As the vendor did not provide any specific technical points in the tender document that favoured a particular vendor, it cannot be commented upon. Further, the technical specifications (as per Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specifications. However, wherever possible minor modifications in the revised technical specifications document have been made for more participation.

(V) Imperial Life Sciences (P) Ltd (representing MI labs) did not participate in the Pre-Bid meeting. However, put forth a representation via letter/email from Mr Kumar Amit Goswami; addressed to Director (BSIP) and emailed to Director (BSIP), Registrar (BSIP) dated 24th November 2022.

1. The vendor raised the issue that the Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02 is "locked and biased to a particular make" and requested to "change in the specifications so that other leading technologies in the market may get equal and transparent opportunity to participate".

As the vendor did not provide any specific technical points in the tender document that favoured a particular vendor, it cannot be commented upon. Further, the representation has been rejected as the technical specifications (Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, wherever possible minor changes in the revised technical specifications document have been made for more participation.

2. Further, the vendor raised the issue "We, Imperial Life Sciences, were the first to initiate discussions with you and the entire team at BSIP and had clearly demonstrated the use of our Micro CT system for your applications specifically related to Fossils/Palaeontology/Material Sciences/Plant based studies. We have been under discussions since past 2-3 years and have provided all the requested information on time,

which was positively acknowledged by the entire procurement team at BSIP. However, releasing tender in favour of one company does not justify our efforts and does not permit us to participate”.

The discussion with the equipment manufacturing firms/vendors including Imperial Life Sciences (P) Ltd (representing MI labs) were part of the usual technical/financial market survey of the intended procurement and does not carry any right to the firm. The representation has been rejected as the overall open tender document including the technical specifications (Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) have been formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications as per Point 1 of Technical Specification in Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02. However, wherever possible minor changes in the revised technical specifications document have been made for more participation.

Discussions with all the vendors during the pre-bid meeting on the 26th November 2022 from 3:20pm to 3:40 pm.

Discussions were held together with all the vendors (i.e., one individual representative from the participating 4 firms i.e., Labmate (Asia) Pvt. Limited, Baker Hughes, ICON Analytical Equipment Pvt. Ltd, SAANS Analytical) during the pre-bid meeting. During these discussions, it was verbally communicated to all the firms that

- a) The technical specifications (Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/02) were formulated for maximum vendor participation and to suffice the overall scientific requirements of BSIP and its spectrum of applications.
- b) Based on the representations by and discussions with all the vendors during the pre-bid meeting, necessary change(s) (if any) in the technical specification and tender document shall be incorporated and if required, both the “Last date of Receipt of Tender” and date for “Opening of Tenders (Technical Bid Only)” shall be postponed and posted on the BSIPs web-portal.



**REVISED TENDER DOCUMENT
FOR
PROCUREMENT OF SCIENTIFIC EQUIPMENTS**

DATE OF ISSUE	09.11.2022		
PRE-BID CONFERENCE	26.11.2022 (Already conducted on 26.11.2022)	11:00hrs	(Annexure-I)
LAST DATE OF SUBMISSION	25.01.2023 up to 05 P.M.		
DATE OF OPENING OF TECHNICAL BIDS	31.01.2023 at 15.00 P.M.		
PLACE OF SUBMISSION OF TENDER	Birbal Sahni Institute of Palaeosciences, 53, University Road, Lucknow – 226007 (UP) India		

BIRBAL SAHNI INSTITUTE OF PALAEO SCIENCES
(An Autonomous Institute under Department of Science & Technology, Government of India)

**53, UNIVERSITY ROAD,
LUCKNOW – 226007 (UP) INDIA**

Tel: 91-522-2742903, Fax: 91-522-2740098

Website: www.bsip.res.in

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INTRODUCTION

1. BirbalSahni Institute of Palaesociences, 53, University Road, Lucknow (UP) is an autonomous institution under the Department of Science & Technology, Govt. of India. The Institute is pursuing research in PALAEOSCIENCES and allied subjects including Geochemistry and dating.

2. BSIP, Lucknow invites “Sealed bids” under **Two-Bid system** from (i) either manufacturer or (ii) an authorised agent for the equipment/item fulfilling the criteria laid down in Technical Bid format for the supply of equipment.

Tenders should be sealed, super scribed **with**
“Tender No. BSIP/TENDER/STORES & PURCHASE/2022-2023/ 02
and submitted only at the following office:

DIRECTOR
BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
53, UNIVERSITY ROAD,
LUCKNOW - 226007

and should be submitted on or before the closing date i.e., **25.01.2023 up to 05 PM.** if delivered personally and if the quotes are sent by post/courier, the tender must reach **BSIP,LUCKNOW** at the address given above before closing time and closing date.

BSIP is not responsible for delays of any nature including postal and force majeure. Tenders received after the due date will not be accepted under any circumstances. The schedule of opening of quotes is as follows and at the following Venue:

	Date	Time
Technical part Opening in the presence of intending Tenderers at BSIP,LUCKNOW	31.01.2023	15.00 hrs

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
(An Autonomous Institute under Department of Science & Technology, Government of India)

**53, UNIVERSITY ROAD,
LUCKNOW – 226007 (UP) INDIA**

Tel: 91-522-2742903, Fax: 91-522-2740098

Website: www.bsip.res.in

Tender No. BSIP/TENDER/STORES & PURCHASE SECTION/2022-23/02
Tender Notice

Director, Birbal Sahni Institute of Palaeosciences, Lucknow- 226 007(India) invite a tender (Parts-I Technical Bid, Part-II Commercial Bid) in separate sealed covers from (i) either manufacturer or (ii) an authorized agent for the equipment/item under two bid system.

Supply of Scientific Equipment with accessories as under:

Micro CT Equipment

AT

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, LUCKNOW
(An Autonomous Institute under Department of Science & Technology, Government of India)

53, University Road, Lucknow -226 007

Tender documents can be downloaded from Institute web site <http://www.bsip.res.in>. The bidder has to submit the **tender document fee of Rs.5,000/- (Rs. Five Thousand only) +18% GST** in the form of DD drawn in favour of Director, BSIP, Lucknow payable at Lucknow(UP) with Technical Bid-Part I.

Date of Issue of Tender Document : **09.11.2022**
Pre-Bid Meeting (Annexure I) : **26.11.2022 at 11.00 hrs**
(Already conducted on 26.11.2022)
Last Date of receipt of Tender : **25.01.2023 upto 05 PM**
Opening of Tenders (Technical Bid only) : **31.01.2023 at 15:00 hrs.**
Venue of Pre-Bid Meeting - BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, 53, UNIVERSITY ROAD, LUCKNOW-226 007.

The Institute reserves the right to reject the tender without assigning any reason therefore.

Registrar
Birbal Sahni Institute of Palaeosciences

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
(An Autonomous Institute under Department of Science & Technology, Government of India)

53, UNIVERSITY ROAD, LUCKNOW – 226007

Tel: 91-522-2742903, Fax: 91-522-2740098

E-mail: registrar@bsip.res.in

Website: www.bsip.res.in

DETAILS OF TENDER AND TENDER NOTICE

Tender in sealed cover is invited by Director, BSIP from manufacturers or authorized agents **for the Scientific Equipment's with accessories for these of the Institute.** Details of the equipment, number of units, their specifications, are given in **Annexure I** of this the tender document.

The tender document can be downloaded from the websites of BSIP at www.bsip.res.in One tender document is adequate even if bids are submitted for more than one item. Tender documents are available: From **09.11.2022 at 03.00 pm to 25.01.2023 up to 05 PM.** LAST DATE FOR SUBMISSION OF DULY FILLED UP SEALED TENDER AT BSIP, LUCKNOW is **25.01.2023 up to 05 PM**

A pre-bid meeting already conducted on 26.11.2022 the date of Opening of the Technical Bid is i.e. **31.01.2023 at 3:00 PM.** BSIP, LUCKNOW reserves the right to accept or reject any or all the bids either in full or any part at its discretion without assigning any reason thereof.

Address for Communication: **BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, 53, UNIVERSITY ROAD, LUCKNOW – 226 007, Tel.: 91-522-2742903 Fax 91-522-2740098.**

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BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
(An Autonomous Institute under Department of Science & Technology, Government of India)

53, UNIVERSITY ROAD,
LUCKNOW – 226007
Tel: 91-522-2742903, Fax: 91-522-2740098
E-mail: registrar@bsip.res.in
Website: www.bsip.res.in

TERMS AND CONDITIONS – GENERAL

1. Tender documents shall be issued by BSIP at LUCKNOW to manufacturers / authorized agents.
The tender document fee of Rs 5000/- +18%GST (non-refundable) should be separately enclosed with the technical bid and be submitted on or before the closing date.
Separate Tender documents should be required for each item along with separate Tender fee.
2. Modifications, if any, made in the above documents will be done by addenda / corrigenda, copies of which will be sent in duplicate to each bidder before the due date of the tender. One copy should be signed, sealed and submitted along with the technical bids. The bidder shall not make any additions/deletions to or amend the text of the documents except in so far as may be necessary to comply with any addenda/corrigenda issued. **The bidders shall use only tender documents as issued forsubmitting his bid and shall comply with various terms and conditions.**
3. All pages of tender documents shall be signed by the person authorized to file the tender.
4. The full name of the person authorized to file the tender, designation, current and main office address, Phone No., Fax No. & E-mail address shall be indicated in the tender.
5. Tenders sent through E-mail, Fax and Telex will not be entertained.
6. The tender should be filled in and submitted in English. All accompanying literature and correspondence shall also be in English.
7. No claim for costs, charges, expenses incurred by the bidder in connection with preparation of tender submission and for subsequent clarifications of their tender shall be accepted.
8. BSIP will not be responsible for any typographical errors/ambiguity/ additions /omissions committed by the bidder while filling up of the tender.
9. **Earnest Money Deposit of Rs.18,00,000.00 and Performance Bank Guarantee @ 3%**

- (i) Tender must be accompanied by Earnest Money Deposit (EMD) as indicated in Annexure-I for each item being supplied in the form of DD/BG in favour of **Director, BSIP**, payable at **LUCKNOW**. EMD shall be paid in **Indian currency only**. In case of receipt of EMD in Indian currency from abroad, same shall be refunded in Indian currency only. BSIP will not be responsible for refunding the EMD in foreign currency.
- (ii) The bids are to be submitted in two sealed envelopes. **Technical Bid (Envelope I)** shall contain Earnest Money Deposit (EMD), prequalification documents, tender conditions and contract form duly signed by authorized person or persons as a token of acceptance of terms and conditions of supply and work qualification as per **Annexure VI**. **Financial Bid (Envelope II)** shall contain price schedule of quantity.
- (iii) The EMD deposit by the successful bidders shall be held back towards the security deposit and will be refunded after six months of successful installation of the equipment/machine at site or completion of warranty period.
- (iv) The EMD of the unsuccessful bidder will be returned within one month from the date of award of the contract.
- (v) The E.M.D. is payable by all categories of tender and exemption from submission of E.M.D. is permissible subject to submission of Valid exemption certificate.

EMD submitted in the form of Fixed Deposits will not be accepted.

10. Technical Compliance statement for the tendered item is a pre-requisite qualification for participation in tender process. Therefore, the same must be submitted with the technical part. **Any falsification / suppression of facts in the compliance statement would lead to the rejection of the quote, along with forfeiture of the E.M.D.** Corresponding to each technical specification in the compliance statement, relevant serial no. / page no. /line no. Etc., in the data sheet should be indicated separately. Incomplete compliance statement may lead to rejection of the quote.
11. The bidder shall be deemed to have full knowledge of documents and no extra charges consequent on any misunderstanding or otherwise shall be allowed.
12. Any question regarding the tender document and discrepancies shall be directed to the Tender Issuing Authority in writing minimum 3 days prior to the due date of submission of tender. The Tender Issuing Authority will issue all clarifications interpretations, meanings and specific directions, if any, in duplicate in writing to all the bidders. **One copy of these shall be returned duly signed and seal affixed along with the bids.**
13. The bidder shall be deemed to have satisfied himself before tendering as to the Correctness and sufficiency of his tender and about the rates quoted by him and

cover all his obligations under the tender.

14. The tender shall be filled in English with a neat hand / type and all the figures and words shall be legible.

15. Bids submitted by manufacturers and authorized agents only shall be considered.

16. Authority of signing

- i. If the tender is submitted by an individual, it shall be signed by him.
- ii. If the tender is submitted by a proprietary firm, it shall be signed by the proprietor.
- iii. If the tender is submitted by a partnership firm, it shall be signed by all the partners of the firm or by a partner holding the power of attorney for the firm for signing the tender, in which case, a certified copy of power of attorney shall accompany the technical bid.
- iv. If the tender is submitted by a limited company or a corporation, it shall be signed by a duly authorized person or the person holding the power of attorney for signing the tender, in which case a certified copy of the power of attorney shall accompany the technical bid.

17. Financial Bid:

- (i) The rates shall be written both in words and in figures. The bidder shall also show the amount of each item, the total of each section and the grand total of the whole tender.
- (ii) Correction, if any, shall be made by crossing out, initialling with date and rewriting. In case of conflict between the figures and words in the rates, the latter shall prevail.
- (iii) The tenders shall be verified by the bidder for accuracy in the arithmetical calculations, prior to submission.
- (iv) Total cost of the main equipment and accessories (imported/indigenous), required for the functioning of the equipment, including the test control system, printer, packing & forwarding etc., duly filled and signed **in the format prescribed in the tender document at Annexure – II**. No money other than the total indicated above will be payable on any account.
- (v) Annual Preventive Maintenance charges as per technical specification (Annexure – I), in the format prescribed in the tender document as per a Annexure – II.
- (vi) The pre installation requirement should be mentioned in the bid.

18. Technical details shall contain:

- i. Original Tender document **duly signed** by the authorised person on all pages.
- ii. Compliance to technical specifications of the equipment/item for which bids are submitted – Authorized person to indicate the **compliance of technical specifications in the respective pages** of the tender document and sign the same.
- iii. **Compliance to the terms and conditions** of the tender document – Authorized person to specify, “**All the above terms and conditions will be complied with**” and signed in respective pages of the tender documents, where “terms and conditions” are given.
- iv. Adherence to the stipulated **delivery schedule** of the equipment/item –
Authorized person to specify “delivery schedule given above will be complied with” and signed in respective pages of the tender documents, where “delivery schedule of each of the items” is as given in **Annexure III**.
- v. **Proof that the bidder** is (i) either manufacturer or (ii) an authorized agent for the equipment/item for which the bid is submitted.
- vi. List of organizations in India and abroad, along with Contact Person, address, Tel. No., Fax No. Etc., to which **similar make/model** of the equipment were supplied (as per technical specification Annexure – I).
- vii. Compliance that the bidder has manufactured or supplied the equipment (as per technical specification Annexure – I).
- viii. Covering letter, in the letter head of the bidder stating:
 - a. Minimum **warranty period** (as per technical specification Annexure – I).
 - b. That the bid **conforms to the terms and conditions** of the tender
 - c. Confirmation about the **supply of Certified Reference Materials/Samples** for checking the performance of the testing equipments, wherever applicable. (as per technical specification Annexure – I).
 - d. Confirmation that the quoted rates are valid till 31-03-2023.
 - e. The details regarding the service centres, stocking of spares etc.
- ix. Addenda / corrigenda / clarification issued by BSIP before due date of tender, duly signed by the authorized person.
- x. Descriptive leaflet/brochure giving the technical details of the equipments.
- xi. A letter indicating assumptions, criterion, technical alternative etc., if any. However, the alternatives suggested by the bidder would not be taken as the basis for technical/commercial evaluation of the bids.
- xii. The probable life expectancy of the equipments under normal conditions of operation should be stated wherever applicable.
- xiii. Details of pre-installation requirements including space, size of the table required, power point ampere, etc.
- xiv. Power of attorney authorizing the person who has filed the tender, if applicable.
- xv. A copy of the certificate for the calibration of the similar makes and model equipment for which bid is submitted from an accredited calibration laboratory or National Physical Laboratory, wherever applicable. (as per technical specification Annexure – I).

18A Technical Bid Evaluation Criteria:

- xvi. Quotation submitted by the bidders shall be valid for financial year 2022-2023.
- xvii. The tender job will be awarded on overall L1 basis, not on individual item basis.
- xviii. L1 will be decided on the basis of total of quoted rates of the all items and applicable taxes etc.
- xix. In case of tie between the bidders, the decision of the BSIP, Lucknow/ Committee will be final and binding on all the bidders.

- xx. Bidders are requested to quote their prices in given format only and no other terms and conditions should be mentioned in financialbid.

19. Opening of tender

The tender shall be opened by a Committee constituted by the Director, BSIP at LUCKNOW at the time, date and venue as given in the “Tender Notice”.

20. Agreement

The successful bidder shall sign an Undertaking on letter head as per the format prescribed in **Annexure-V** before releasing of the Purchase order by BSIP. A copy of The Purchase order once received should be returned as a token of acceptance of the terms and conditions of the Purchase Order.

21. Criterion for rejection

- i. BSIP reserves the right to accept or reject any tender or reject all tenders without giving any reasons whatsoever for their decision.
- ii. Tenders are liable to be rejected in which any of the prescribed particulars / information is either missing or incomplete in any respect and/or if the prescribed conditions are not fulfilled.
- iii. Tenders which are found to be technically non – responsive shall be rejected and their commercial details shall not be considered.
- iv. Canvassing in connection with tender is strictly prohibited and tender submitted by bidder who resorts to canvassing will be liable to rejection.
- v. Tenders containing specific conditions of the bidder other than the terms and conditions given in the tender document and not acceptable to BSIP are liable to be rejected.
- vi. If the validity of the tender is not up to **31.03.2023** the tender will be rejected.
- vii. If the tender document duly signed by the authorized person on all pages is not submitted, the tender will be rejected.
- viii. BSIP caters to wide range of customers / stakeholders including the manufacturers/exporters. Hence, Purchase Committee may at its discretion give preferences to more popular brands of equipments, which give results that, are widely accepted internationally by buyers abroad and the decision of the Committee will be final.

- ix. Before submission of the tender, the prospective bidders are expected to examine technical specifications of the equipments required, terms and conditions, etc., given in this tender document. Failure to furnish all information required in the tender document may result in the rejection of the bid.
- x. BSIP reserves the right to cancel items, from the list of requirement of equipments without assigning any reason thereof.

TERMS AND CONDITIONS – SPECIAL

- i. Tender offer must refer to the letter/Notice inviting the Tender. The bid should be in sealed envelope and super scribed with “,
Tender for Supply of
- ii. The bid submitted must not contain any ambiguity. Any such ambiguity in the quote submitted shall make it liable for rejection.
- iii. The tender document is non-transferable.
- iv. No amendment to the bid in any form by the bidder will be permitted after opening of the tender. No conditional offers shall be accepted.
- v. Submission of bid will bind the bidder to the acceptance of all conditions specified in the tender document. Canvassing in any form is forbidden and will be a criterion for disqualification.

EMD (Earnest Money Deposit): Rs.18,00,000.00 or Bid security declaration certificate

- i. The earnest money deposit (EMD) Rs.18,00,000.00 shall be submitted in Indian currency only. The bid security should remain valid for a period of 45 days beyond the final bid validity period.
- ii. The EMD will be forfeited if the bidder withdraws his offer before finalization of the tender.
- iii. The EMD of successful bidder will be returned after the submission of Performance Security or adjusted with the PBG.
- iv. EMD exemption is allowed subject to submission of MSEs registration certificate as per GFR 2017
- v.

Performance Security: 3%

- i. The successful bidder will provide “Performance Security” for an amount of 3 % of the contract value in the form of valid Account payee Demand Draft/ FDR from any of the scheduled bank favouring “BIRBAL SAHNI INSTITUTE OF PALAEO SCIENCES, LUCKNOW.
- ii. Performance security should remain valid at least for a period of 60 days beyond the date of completion of all contractual obligations of supplier (Total Period of FDR/Demand Draft – Warranty Period plus 60 days). Thereafter the security will be returned, provided there is no defect in the equipment supplied.
- iii. **Bid Validity:** 180 days from the submission of tender.

- iv. **Price bid submission:** In the prescribed format defined in the tender document.

Financial Bid Evaluation Criteria:

The order will be awarded to the vendor, who fulfils all the technical specifications & conditions mentioned in the tender document for Technical Bid and whose rate is L1 in grand total in Financial Bid. Evaluation of Lowest bid will be calculated on the total price of all items tendered along with accessories, packing & forwarding, Installation & Commissioning, GST and other charges etc. As mentioned in the tender (Bidder must submit the technical bid & financial bid separately).

Special Instructions:

BSIP, Lucknow shall provide GST certificate on request by the bidder.

Vendor shall be responsible for customs clearance and if requested, BSIP (Lucknow) shall provide DSIR certificate and other related documents for custom clearance purpose. Further BSIP (Lucknow) shall not be liable for any demurrage charges, if they arise

Vendor(s) to submit Masked Financial/Commercial Bid

Payment terms:

90% payment will be released after successful supply of items at site (CIF/CIP). (In case of Foreign payments LC will be opened as per rule) Principal supplier

10% will be released after successful installation of items at site and submission of Original GST bill certified by the Indenter, BSIP, Lucknow

If the vendor has no previous Micro-CT (quoted model/similar or higher specifications model) installation in India (as per technical specification point no. 11.7), global installations of the quoted model/similar or higher specifications model may be considered provided that the firm provides 20% additional bank guarantee before opening of LC. This additional bank guarantee of 20% shall be released after installation and 6 months of successful operation.

Part Shipment not allowed: Part Shipment will NOT be allowed.

Printed Conditions of the Company – Not Acceptable to the Institute:

- i. BSIP does not accept the printed conditions of any Tender. It will be ignored with out any reference; hence tender should withdraw such printed conditions if they have any. BSIP shall accept only unconditional tender.
- ii. Technical Deviations are sole discretion of BSIP for consideration:

- iii. If technical deviations furnished by the Tenderer are not agreeable to BSIP, the offers may be ignored. However it will be solely at discretion of BSIP to consider the technical deviations OR not for considering the Tenderer. No correspondences of the Tenderer will be entertained in this matter.

Price Validity: The price quoted by the bidder shall remain valid till the supply is completed. During the tenure of the supply period, no price increase will be considered, except for change in statutory levies imposed by Centre Govt. / state Govt. Or Local authorities.

Warranty: As specified in the Technical Specification.

Bid Acceptance and Rejection:

- i. BSIP reserves the right to reject the bid without assigning any reason whatsoever.
- ii. BSIP does not bind itself to accept the lowest or any quotation and reserves the right to reject any or all without assigning any reason.

Late Receipt of Bids: No bids will be accepted or considered after the due date and time.

Liquidity Damage Clause: BSIP, Lucknow reserves the right to levy penalty @ of 1 % of order value per week of delay in supply and /or installation, beyond the schedule as mentioned in this tender document subject to maximum of 5% of the order value. BSIP, Lucknow reserves the right to cancel the order in case the delay is more than 04 weeks. The conditions arising out of Force Majeure will not be considered for the purpose of calculating penalties.

Withdrawal of Tender: The Institute reserves the right to withdraw the tender at any stage of tendering process with the approval of the Competent Authority.

Force Majeure: BSIP, Lucknow may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storm etc.), acts of states/ state agencies, the direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at successful Bidder's premises or any other act beyond control of the bidder.

Arbitration: All disputes/claims of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. Under this Contract, shall be referred by either party (BSIP, Lucknow) to the bidder after issuance of 30 days' notice in writing to the party clearly mentioning the nature of dispute to the Sole Arbitrator appointed by BSIP, Lucknow. The arbitration proceedings shall be conducted in English and as per the provisions of Indian Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

Jurisdiction: The disputes, legal matters, court matters, if any shall be subject to Lucknow jurisdiction only.

- i. A bid submitted with false information will not only be rejected but the vendor may also be debarred for participation in future tendering processes.
- ii. Authorized representative may choose to be present at the time of opening of tender at their own cost.
- iii. Only one PRICE BID should be submitted for the above equipment. A bidder, who submits more than one PRICE BID, shall be disqualified and considered non-responsive.
- iv. Cost details are to be filled up in the prescribed format as given at Annexure – II for all the equipment's as applicable to imported /indigenous indicating therein total CIF charges.
- v. All accessories start-up kit required for installation & commissioning the main equipment's are to be specified and quoted.
- vi. For indigenous items, the bidder should take responsibility for delivering the equipments inside the premises of the respective BSIP at Lucknow and its Associate partners as mentioned in the Purchase Order.
- vii. The suppliers of the equipment should provide adequate training for technical personnel of the laboratory per equipment including trouble shooting etc., and making them confident of operating the equipment independently (as per technical specification Annexure – I).
- viii. The bidder shall adhere to the delivery period of the equipment/item as committed by him as indicated in Annexure III of the tender document, whichever is earlier. Penalty for non-execution of the order within the delivery period shall be 1% of the cost of the equipment/item for every week of delay.
- ix. The delivery installation & commissioning period of the equipments as agreed to should not be extended; under normal conditions. Suitable penalty for non-execution of the order may be enforced to the extent of 1% of the cost of equipment for every week extended. In case of the delay beyond scheduled period due to some unforeseen reason, written permission is required from the Director, Birbal Sahni Institute of Palaeosciences, Lucknow with proper justification to avoid penalty.

- x. The bidder shall give warranty in respect of items quoted (as per technical specification Annexure – I).
- xi. During the warranty period, regular servicing/maintenance should be undertaken free of charge, including replacement of defective parts/travel cost, etc. Subsequently, servicing/maintenance should be undertaken by the authorized agency of the manufacturer/supplier as per the annual maintenance contract conditions.
- xii. Operation manuals, calibration procedures and other instruction manuals should be provided along with each of the equipment (as per technical specification Annexure – I).
- xiii. The bidder shall also mention the probable life expectancy of the equipments under normal conditions of operation should be stated wherever applicable
- xiv. Terms for service contract (comprehensive or non-comprehensive) after the expiry of warranty period are to be included.
- xv. The Test Control Systems like computer and printer, compatible to the main equipment, are to be supplied indigenously with latest configuration and licensed operating system (as per technical specification Annexure – I).
- xvi. If the equipment/item is not manufactured by the bidder, authorization of the manufacturer to the bidder for marketing and servicing the equipments in India should be enclosed along with the technical bid of the tender. In the absence of such authorization, the tender will not be considered at all.
- xvii. In case of short supply or wrong supply of equipments, its parts or accessories or supply of items in damaged conditions, it is the responsibility of the bidder to arrange for the supply of the required items in working condition as per the purchase order, within a reasonable time. Any additional expenditure, whatsoever, for the above will be borne by the bidder only.
- xviii. The specifications given in this document are the minimum requirement. The bidders are free to offer equipments with better features also. However, the evaluation shall be based on the features mentioned in the tender document. If different model are quoted, the cost details may be given in separate sheet
- xix. Orders for the supply of items, once placed with successful bidder is non transferable and no sub-contracting is permitted. BSIP, Lucknow reserves the right to cancel the order in such event.
- xx. Any non-fulfillment of the stipulation given above will make the bid invalid.
- xxi. The full payment will be released to the bidders only after completion of satisfactory performance check of the equipment.
- xxii. The bids shall first be evaluated for their “technical responsiveness” which shall inter-alia include:
 - a. Proof that the bidder is (i) either manufacturer or (ii) an authorized agent for the equipment/item for which the bid is submitted,

- b. Compliance to technical specifications of the equipment's for which the bid is submitted,
- c. Adherence to the warranty period,
- d. Documents in support of compliance to the calibration of the equipment and its traceability to national/international standards of measurement and proven performance through proficiency testing, wherever such requirement is specified,
- e. Necessary documentary proof that the bidder has manufactured or supplied the equipment with the list of such customers and performance report of the equipment such customers/users (as per technical specification Annexure – I).

Details regarding the service centres, stocking of spares etc.

- i. Confirmation about the supply of Certified Reference Materials/Samples for checking the performance of the testing equipments, wherever applicable. Compliance to all other relevant and critical terms and conditions of the tender Validity of the tender up to 31.03.2023 (Financial year 2022-2023).
- ii. If any of the above-mentioned parameters are not fulfilled, the bid will be considered as technically non-responsive.
- iii. The commercial details of those bidders who are technically responsive only shall be evaluated based on the following criterion:
- iv. Total price of the equipment as CIP / CIF for imported items.
- v. Total price of the indigenous items should include delivery charges up to the location at BSIP, Lucknow, India.
- vi. AMC charges after the expiry of the warranty period (as per technical specification Annexure – I).

ELIGIBILITY AND QUALIFICATION CRITERIA

The following documents should be submitted for eligibility and qualification in technical bid-

Sl.No	Description
	EMD Clause -
1	Technical Specification Compliance Statement –(On the letter head of the Company) – Annexure -1
2	Manufacturer’s Authorization Form – In defined format OR Self Declaration of Manufacturing Unit – Annexure – 2
3	Price Reasonability Certificate – In defined format (On the letter head of the Company)- Annexure – 3
4	Declaration Certificate (Acceptance of terms & conditions of the tender) – In defined format (On the letter head of the Company) – Annexure – 4 and Declaration Sheet as per Annexure – 4.
5	As on date of submission of the proposal, the Bidder is neither blacklisted by Central Government/State Government or Instrumentalities thereof nor is any criminal case against the Bidder/ its Partners/ Directors/ Agents pending before any court of law. Non-Blacklisting Certificate on Rs.100.00 non-Judicial Stamp Paper – Indefined format – Annexure – 5
6	Copy of Firm Registration
7	Copy of PAN Card & GSTNo.
8	Experience certificate in dealing of said goods must be attached with the tender document (as per technical specification Annexure – I).
9	Last three years of CA certified turnover certificates and CA certified Average Turnover of the last three years

Annexure I

DETAILS OF ANNEXURE

List of equipment's to be procured

Item No.	Particular of Items	Qty.	EMD in DD/ BG/ BC	Performance Security
1	Micro CT Equipment	01	Rs.18,00,000.00 or Bid security declaration certificate (Exemption is allowed subject to submission of MSEs registration certificate as per GFR 2017)	3%

COMPLIANCE STATEMENT TO SPECIFICATIONS OF EQUIPMENT

(Compliance with specification column is to be filled up by the bidder stating “YES/NO” with specifically mention of numerical values wherever applicable with documentary evidences)

1. Technical Specification of Micro CT Equipment

S.NO.	PARAMETERS	Specification
1	APPLICATION	<ul style="list-style-type: none"> • The “Fully Sealed System” will be used for detailed inspection and analysis of sedimentary rocks (e.g., Shale, Limestone, Sandstone, Lignite etc.) and sedimentary rocks bearing fossils (e.g., vertebrate fossils, invertebrate fossils, plant fossils, and microfossils not limited to palynomorphs, amber inclusions, ostracods, phytoliths etc.) and ichnofossils (e.g., coprolites, burrow structures, etc.). • The CT equipment should be capable of scanning, inspecting and analysing geological and palaeontological specimens of the following size range: ~200 microns to 400 mm. • The equipment should be capable to allow penetration of X-rays at least 20mm of Tangential thickness of steel.
2	SOURCE	
2.1	X-ray tube	Open tube(s) for micro focus & nano focus. Alternatively, a Single source tube meeting all the technical requirements of source indicated in 1, 2.2 -2.6.
2.2	Maximum Voltage & Power (W)	≥220KV & 320W for Micro focus and ≥150 KV & 15 W for nano focus or better configuration meeting all other technical requirements
2.3	Detail detectability	<1 micron (for both Micro-focus and nano-focus) as per JIMA chart; JIMA chart (RT-CT01 or better standard) must be provided with the equipment.
2.4	Magnification (3D)	up to 100x (for micro-focus) & up to 400x (for nano-focus) or better
2.5	Focal spot size/resolution	Preferable focal spot size certification must be mentioned and as per JIMA chart; JIMA chart (RT-CT01 or better standard) must be provided with the equipment.
2.6	Minimum voxel size	<2 microns (micro-focus) & <1 micron (for nano focus) or better
3	DETECTOR	Detector must confirm to ASTM E 2597 standard

3.1	Detector size	400 x 250 mm (for both Micro- and nano focus) or better configuration
3.2	Number of pixels	minimum 4 MP (for Micro and nano focus) or better configuration
3.3	Pixel size	150 Micron or Lower
3.4	Scintillator	Crystal scintillator (e.g., Cesium Iodide; Gadolinium oxysulfide) or better configuration must be quoted
4	Sample dimension(s) and scan size	
4.1	Max. Sample size	250 mm x 200 mm or higher
4.2	Max Sample height	400 mm or higher
4.3	Max sample weight	20 Kg or higher
4.4	Max Scan size	250 mm x 200mm x 400 mm or higher
5	Manipulator for object handling	
5.1	No of axis	Minimum 4 Axis
5.2	Axis Control	manual/automatic
6	Hardware	Hardware/Software control should be provided for operation and controlling of the equipment
7	Control Unit for Acquisition connected to micro-CT	<ul style="list-style-type: none"> • 1 Quantity user friendly controlling unit compatible with the CT system having the latest software to give the best performance must be provided for data management, data acquisition, data transfer, data back-up. • The controlling unit must have the following specifications or must have suitable configuration compatible with the quoted system:
7.1	CPU Processor	Intel Xeon-W2265 :12C or equivalent, 3.5GHz,19.25 MB Cache or suitable configuration compatible with the quoted system
7.2	HDD	4 TB SSD or higher or suitable configuration compatible with the quoted system

7.3	Graphics processor	High end Graphics processor (16 GB graphic card or better) optimised for using analysis software and accelerated CT reconstruction and visualization or suitable configuration compatible with the quoted system
7.4	Monitor	21 inch High Resolution monitor compatible for data visualization or suitable configuration compatible with the quoted system
7.5	RAM	8 GB or suitable configuration compatible with the quoted system
7.6	Operating System	Windows 10 or suitable configuration compatible with the quoted system
8	Data Acquisition, Control and Processing Software	<p>The software must meet the criteria mentioned under points 8.1 to 8.9 (if applicable) and must have the following features:</p> <ul style="list-style-type: none"> • Interactive, user-friendly software (all modules) must be provided for CT acquisition, reconstruction, visualization (e.g.: porosity, permeability analysis, histogram pseudo colour imaging, 3D metrology (Optional) and reference libraries. • The system must be supplied with life time free licensed software with a provision for free online timely upgradation. • The software must be capable of fast volumetric reconstruction, 2D/3D quantitative analysis and for surface rendering visualization, realistic visualization, easy creation of movies by volume rendering with possibility for virtual flight around and inside the reconstructed object's microstructure. • The software should be able to create and export files for 3D printing, digital repositories (e.g., Morphosource). • The software must have provision for calibration of equipment.
8.1		Control X-ray Tube and monitoring
8.2		The system should have auto CT option to fully automate the CT process i.e., Acquisition, Reconstruction, data optimisation, surface extraction etc. to save operator's time
8.3		Saving and execution of Pre-defined CT program for repeated job inspection
8.4		Setting of 3D CT data acquisition parameters
8.5		Setting of Digital Detector Array parameters
8.6		Control of Detector
8.7		Easy integration and Data transfer for post analysis of volume data
8.8		Measurement modes: faster scan and, stop and scan

8.9		Capability to export the projection data and volume data into DICONDE/DICOM/TIFF/HDR/RAW etc formats/standards or specify the formats/standards
9	Radiation safety cabinet system	The equipment/system should be fully sealed and the equipment should be compliant with the latest AERB safety guidelines.
9.1		Radiation symbol, warning lamps/flashers, emergency shutdown/stop provisions to be provided as per AERB guidelines
9.2		<ul style="list-style-type: none"> • The CT system should be supplied with a self-shielded and radiation proof lead cabinet. • The leakage radiation should be less than 1μSv/h (0.25mR/h) measured at a distance of 100 mm when operating at the highest power. • The cabinet should be in compliance fully with International Radiation Regulations (IRR 99) and the Local AERB Regulations and supplied with independent safety switches to protect the operator when the doors are open. • The firm should provide NOC from AERB for radiation shielding for placement of the system without the need of additional radiation bunker/enclosure.
10	Additional Features	
10.1		Sample viewing: The equipment should allow the user to view the sample/object during scanning
10.2		Anti-vibration: The equipment should have provisions to suppress vibrations during operations, if any.
11	Other Essentials	
11.1	Calibration phantoms	<ul style="list-style-type: none"> • Phantom for determination of image quality (contrast & resolution) • Dimensional inspection Phantoms (if necessary)
11.2	Operating Temperature	10-30°C
11.3	CE certificate compliance	Firm should supply CE certificate compliance
11.4	Pre-installation requirements	Vendor(s) must indicate the pre-installation requirements in the technical bid.

11.5	Warranty & AMC	<ul style="list-style-type: none"> • A separate quote must be provided for 1-year additional warranty along with the instrument warranty. • A separate quote must be provided for 3 years non-comprehensive AMC. The 3-year AMC shall include a minimum of 2 maintenance visits per year and unlimited service/breakdown visits. • Vendors should provide cost for minimum spares along with cost for escalation criteria for post-warranty AMC as per Government of India (GOI) norms.
11.6	Training to BSIP Staff	<ul style="list-style-type: none"> • Minimum 1 person shall be deputed by BSIP for on-site visit at the Original Equipment Manufacturer (OEM) for pre-dispatch inspection, document verification and maintenance training. • The cost for travel, boarding, lodging should not be included in the cost of the equipment. • Advanced training at installation site (BSIP, Lucknow) to be provided for a minimum of 10 days post installation by certified factory trained engineers.

11.7	Heritage (Global and Local Users)	<ul style="list-style-type: none"> • The vendor must provide a list of equipment installed Globally/India of the quoted model in the past 5 years. • The vendor must have installed minimum 3 qty Micro-CT equipment in India in the past 5 years. However, if there is no previous Micro-CT (quoted model/similar or higher specifications model) installation in India, the global installation may be considered provided that the firm provides 20% additional bank guarantee before opening of LC. Also refer to the financial terms and conditions in the tender document. • The bidders also have to submit a performance certificate for the quoted model for a minimum one year of operation (in the last 5 years) from at least 3 users of a reputed PSU/Govt./Private Company in India/Globally. • Training and local support certificate(s) should be provided by the vendor.
11.8	Filters	Minimum 5 filters (Al, Cu) of variable thickness must be provided, if applicable
11.9	System working condition	System should be complete for ready to work conditions.
11.10	Power requirement and supply	<ul style="list-style-type: none"> • The instrument and accessories must be operational at 240±10 volts and 50±10 Hz (Indian standard electrical supply). • All cables for power, communication and computer connections must be provided.
11.11	Sample stage/mounts	Minimum of 5 qty sample mounts for different object (geological and palaeontological) sizes must be provided

11.12	Spares and consumables	A separate quote for Minimum of 5 qty filaments must be provided
12	Instrument footprint	The instrument dimensions should not exceed 3000 mm (Width) x 2150 mm (Height) x 1600 mm (Depth) (excluding the control unit/peripherals) and the instrument should not weigh more than 7500 Kg (excluding the control unit/peripherals)
13	Delivery	Must deliver the equipment within 30 weeks from the date of issuance of AERB approvals
14	Documents to be provided in English language	<ul style="list-style-type: none"> ● Documents for heritage (Global and Local Users) should be provided. ● Pre-dispatch inspection documents must be provided. ● Installation documents must be provided. ● All documents with regards to instrument certifications (e.g., Detector qualification, AERB Clearances, IRR 99 clearances, and others) must be provided. ● All the Technical Specification mentioned above must be supported with documentary evidence (like Brochure) from OEM ● All necessary declarations to be provided in the vendor's letterhead with authorised signatures and stamps ● Minimum 1 copy of instrument installation manual, operation manual and maintenance manual to be provided in English language along with the instrument, ● Supplier must give declaration for availability of spares in case of obsolesces of the equipment.

Local Supplies:

S.NO.	PARAMETERS	Specification
A	Supply Conditions	<ul style="list-style-type: none"> • Transportation to the installation site (BSIP, Lucknow) including loading, unloading, internal movement, positioning and commissioning of the equipment along with necessary insurance, as applicable.
B	Workstation for Reconstruction /Visualisation	<ul style="list-style-type: none"> • 1 Quantity user friendly best performance workstation with latest software compatible for data management, reconstruction, visualization, analysis and data back-up must be provided. • The hardware specifications should be as follows:
B1	CPU Processor	Intel Xeon-W2265:12C, or equivalent, 3.5GHz,19.25 MB Cache or better
B2	HDD	2 × 4 TB SSD or higher
B3	Graphics processor	High end Graphics processor (16 GB graphic card or better) optimised for using analysis software and accelerated CT reconstruction and visualization
B4	Monitor	40 inch or better High-Resolution monitor compatible for data analysis, reconstruction and visualization
B5	RAM	2 × 256GB DDR4 or better
B6	Operating System	Windows 10 or higher
C	Compressor Unit	If required, a compressor unit (with all accessories, connections) should be provided that is compatible for day-to-day-smooth running/functioning of the CT equipment
D	Humidity Control or De-humidifier	1 Quantity (Capacity: 50L/D @ 30°C and 80% RH)

	equipment	
E	UPS	A compatible UPS with minimum 3 hours of back-up power should be provided along with the instrument.
F	Anti-Vibration Table	If applicable, an anti-vibration table must be provided for hosting the equipment.

Annexure II

FORMAT FOR COST DETAILS

(Cost particulars should be given in this format Equipment wise/ accessories wise separately)

Note: All the cost particulars should be furnished either in Indian Rupees or Foreign Currency. If more than one model of the Equipment is quoted, use separate sheets

Part 1: Cost details of Micro-CT equipment/instruments

S No.	Particulars/Cost Details	Cost with currency
1	Micro-CT equipment with all the accessories (As per technical specification)	
2	Indigenous/local supply items (As per technical specification)	
3	AMC (Micro-CT equipment with all the accessories, as per technical specification) 1 year 2 year 3 Year	
Total Cost (Foreign Currency)		
Total Cost (Indian Currency)		

DELIVERY SCHEDULE OF EQUIPMENT

Sr. No	Equipment	Delivery Schedule from the date of acceptance of Purchase Order – maximum
1.	Indigenous equipment's	
2.	Imported equipment's	

FORMAT TO BE FILLED UP AND SUBMITTED

IN THE LETTER HEAD OF THE BIDDER

To,

The DIRECTOR
BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
53, UNIVERSITY ROAD,
LUCKNOW – 226007

Sub: Supply of equipments to BSIP at Lucknow.

Dear Sir,

Having examined the conditions of Tender and Specifications of the equipments, we, the undersigned, offer to supply instruments /equipment as mentioned in the Annexure I as per the quantity and specifications given in the tender along with standard spares/accessories as specified.

The original tender document duly signed on all pages is enclosed.

We agree to abide by this tender for the period from the opening date fixed for receiving the same and it shall remain binding upon us for a mutually extended period agreed in writing by us.

If our tender is accepted, we undertake to supply the instruments/equipments and install the same in the BSIP premises as mentioned in the tender within the specified periods mentioned in Annexure III from receipt of the order from the BSIP, Lucknow in writing.

We agree to supply consumable spare parts and replacement of the broken/damaged/non-compatible parts during the guarantee / warrantee period, free of charge, as per the terms & conditions.

The probable life expectancy of the Equipments under normal conditions of operation should be stated wherever applicable.

We agree to train the personnel of laboratories free of charge, as per the terms and conditions.

If our tender is accepted we will, obtain and arrange:

To sign an Undertaking on Rs. 100/- Stamp paper as per the format prescribed in Annexure V before releasing of the Purchase order by BSIP.

Any other statutory obligation, if any, prior to commencement of supply of equipments.

We agree for the validity of our tender upto 31-03-2023.

We have used only tender documents as issued for submitting his bid and shall comply with various terms and conditions.

Unless and until a formal Agreement/order is prepared and issued, this tender together with your written acceptance thereof, shall constitute a binding contract between us and BSIP.

We understand that you are not bound to accept the lowest or any tender you may receive.

We agree to make a presentation of the products to be supplied by us, before the Committee if needed on a mutually convenient date.

Authorized Signatory

Signature dated

Designation / Capacity

Name

Tender Reference No.: BSIP/TENDER/STORES & PURCHASE/2022-2023/02

Dated _____

UNDERTAKING / DECLARATION

To,

The DIRECTOR
BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES
53, UNIVERSITY ROAD,
LUCKNOW – 226007

Dear Sir,

We, _____ (Bidder's Name & Address) undertake to supply the item _____ (Name of equipments) as per the detailed specification of Tender and honour the terms and conditions of the tender document.

We undertake to supply the equipment within the stipulated period of time and accept the penalty clause imposed by BSIP as per the terms and conditions of the Tender.

We undertake that during the warranty period, regular servicing/maintenance will be carried out as per the Warranty Clause.

We undertake to provide adequate training (normal operation, trouble shooting) to two technical personnel of the laboratory on the supplied equipment and making them confident of operating the equipment independently.

We agree that the full payment will be released to us only after completion of satisfactory installation, trial and training on the said equipments.

Dated at _____ this _____ day of _____ 2022.

Authorised Signatory

Signature

Name:

Designation:

Name & Address of the Company:

Seal of the Company:

(To be submitted by the bidder on `Rs. 100/- stamp paper)

Annexure VI

Technical part & Commercial Part of the tender

SL.No.	Technical part should contain
1.	Tender document Fee of Rs.5,000.00 + 18% GST Extra towards the Tender document. (Exemption is allowed subject to submission of MSEs registration certificate as per GFR 2017)
2.	EMD of Rs.18,00,000.00 (Exemption is allowed subject to submission of MSEs registration certificate as per GFR 2017)
3.	Technical quote giving the compliance details of execution of the work as per the requirement. Compliance to the Detailed scope of work
4.	Makes & Models of the standard items.
5.	Technical Compliance
6.	Commercial Compliance
7.	Blanked Commercial Part
8.	Scope of Warranty
9.	Cliental list
10.	Acceptance for submission of Bank Guarantee for 3% of the PO value for a period of one year from the date of acceptance of the item from BSIP, in the event the PO is placed.
11.	Documents related to Eligibility criteria of this document.

The commercial part should contain information on price quoted for equipment upto BSIP designated place, payment terms, delivery period, warranty/guarantee period and other relevant information as per below.

SL.NO.	Commercial part should contain
1.	<p>Commercial quote containing the price information of the make & model quoted in the technical part exactly as per Bill of Materials. :</p> <p>Supply of Equipments and Accessories as per enclose specification on total TURNKEY BASIS.</p> <p>b. The rates to be quoted as per Annexure - II</p>
2.	<p>Payment terms – Acceptance as per our Terms & Conditions - Special</p>
3.	<p>Delivery schedule – Supply, installation and training to be mentioned</p>

BANK GUARANTEE & PERFORMANCE BANK GUARANTEE

THIS BANK GUARANTEE TOWARDS THE E.M.D SHOULD BE TYPED OUT ON RS.100/- NON-JUDICIAL STAMP PAPER GIVING FULL POSTAL ADDRESS OF THE BANK.

Guarantee No :

Amount :

Guarantee Cover From: To :

Last Date for

Lodgment of Claim :

The BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, 53 UNIVERSITY ROAD, LUCKNOW - 226007 having floated a Tender for (Tender for _____) with Tender no. hereinafter

referred to as the tender, and M/s (name and address of the supplier)

having the intention of participating in the above mentioned, we, the

(banker's name and address) hereby irrevocably undertake and

guarantee to you that in the event of the award of the Contract to the

tenderer and subject to the failure of the Tenderer to perform any of the

following clauses, we undertake to fully compensate the Beneficiary to a

maximum amount of Rs. _____(Rupees

_____ (in words) as and when the same is

claimed from us in writing during the validity of the contract as per the terms and conditions of the tender contract.

If the tenderer fails to accept the contract with the terms and conditions of the contract.

If after the acceptance of the contract, the Tenderer fails to carry out the services in accordance with the terms and conditions of the contract.

If the tenderer withdraws the tender during the validity period.

If the tenderer fails to complete their services in accordance with the terms and conditions of the contract or if there is any unexcused delay on the tenderer's part which may warrant forfeiture of E.M.D. amount and or imposition of liquidated damages and or closure/termination of the contract for default.

We, the bank, abide by your Tender terms and conditions and we shall on demand and without demur, pay to you all and any sums upto a maximum of Rs. _____ (Rupees _____) being the E.M.D. furnished by the tenderer to you in the form of this bank guarantee.

We further agree that the Beneficiary shall be the sole judge as to whether the Tenderer has failed to perform as per the Tender terms and conditions duly specified by the Beneficiary.

We further hereby undertake to pay the amount due and payable under this guarantee without any demur merely on a demand in writing from the Beneficiary stating the amount claimed due by way of loss or damage. Any such demand made on the bank shall be conclusive and binding upon us as regards the amount. Lodgment of claim through Registered Post shall be conclusive evidence of claim made on us by the Beneficiary. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____ (Rupees _____). We further agree that the claim made on us shall be settled within a period of 30 days from the date of lodgment of claim by the beneficiary.

We agree that the guarantee herein contained shall remain in full force and effect for a period of 6 months (six months). Unless a demand is made on us in writing within one month from the date of expiry of six months, we shall be discharged from all liability under this guarantee.

We further agree that any change in the constitution of the bank or the tenderer shall not affect our liability under this guarantee.

We further agree that the Beneficiary shall have the fullest liberty without in any way affecting our liability under this guarantee alter any or all of the terms and conditions of the tender.

Notwithstanding anything contained herein before our liability under this guarantee is restricted to Rs._____ (Rupees_____).

This guarantee shall remain in force upto a maximum of six months (6 months). Unless a demand in writing is made on or before _____ (one month from the date of expiry of six months (date) all your rights under this guarantee shall be forfeited and we shall be relieved and discharged from all liabilities under this guarantee.

We lastly undertake not to revoke this guarantee during the penance of the above said tender/tender contract except with the prior consent of the beneficiary in writing.

This guarantee must be returned to us in original immediately on the expiry of the validity date.

Sealed with the common seal of the bank on this the..... day
of..... 2022.

DATE : For BANKERS NAME

PLACE : SEAL, ADDRESS

PERFORMANCE BANK GUARANTEE

GUARANTEE NO :
AMOUNT :
GUARANTEE COVER FROM : TO :
LAST DATE FOR
LODGEMENT OF CLAIM :

In consideration of the M/s BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES, 53 UNIVERSITY ROAD, LUCKNOW - 226007, hereinafter referred to as the Purchaser having placed order(s):

1. (Order no and date) 2. (Order no and date), with our constituents

M/s _____ (name of your organization) hereinafter

referred to as the contractor, having their office at _____ (address of your

organization) for the supply and installation of (give brief detail of the order placed) and our constituents having undertaken to guarantee the faithful performance of the contract during the warranty period as mentioned in the purchase order(s) referred above, we the (Banker's name and address), do hereby bind ourselves as their guarantors and undertake to be responsible

to the purchasers and their successors and assigns for _____ payment of all or any sums of money, losses, damage, costs, charges _____ and expenses, that may become due or payable by the contractor, in the _____ faithful performance of his said obligations and covenants under the above contract stated

therein provided however that the _____ total amount to be so recovered by the purchaser from us shall not exceed Rs. _____ (Rupees _____) amount of guarantee to be mentioned)

payable under the said Purchase Order. We, _____

_____ (name and address of the bank) do hereby

unconditionally and irrevocably guarantee payment, without demur and without recourse to the purchaser of sums upto Rs. _____ (Rupees _____) amount of guarantee in Rs. _____ and words) on the purchaser's first demand in writing making claim for payment to the purchaser by reason of failure on the part of the contractor to fulfill their obligations under the contract.

We hereby agree that lodgment of claim through registered post shall be conclusive evidence of lodgment of claim.

We further undertake to settle the claim within 30 days of lodgment of claim.

This guarantee shall not be revocable by notice or otherwise and is unconditional and without recourse and our liability as surety shall not be impaired or discharged, until the contractor has fulfilled all the obligations under the contract and shall not be affected by any change in the constitution of the purchaser, Contractor or the bank.

Notwithstanding anything stated herein above our liability under this guarantee is restricted to Rs. _____ (Rupees

_____ amount of guarantee) and shall remain in force till (last date of guarantee) unless a demand or claim under the guarantee is made on us in writing within one month of the above mentioned date, i.e., before (date one month from the last date of guarantee cover) all your rights under this guarantee shall be forfeited and we shall be relieved and discharged of all liability hereunder.

Dated:

FOR

Place:

(Banker's name)

Address and common seal

Sr. No.	Details of Requirement for Opening L/C.(for imported items only)
1.	Foreign Supplier's Name and Complete address on whom L/C will be opened.
2.	Foreign Banker's Name & Address
3.	Foreign supplier's Bank Account No.
4.	Port of shipment
5.	Country of Origin
6.	Period to keep L/C open– (Validity of L/C)
7.	Period of negotiation will be 21 days
8.	Delivery Schedule from the date of issuance of purchase order

Note:

Additional copies may be taken for each equipment's, Octopi, if paid, will be reimbursed separately at actuals

CHECK LIST TO THE BIDDERS

1. Get all the clarification regarding terms and conditions, specification etc during the pre-bid meeting or by writing to the Director, BSIP, Lucknow prior to submission of bids.
2. The original tender document downloaded in full has to be submitted along with the technical details duly signed on all the pages.
3. Fill up the relevant compliance columns in the specifications given for the equipments quoted by stating "YES" or "NO". If any deviations are there in the specifications, the details may be given separately as Annexure.
4. A covering letter duly signed by the authorized person as per the specimen given at Annexure IV of the tender document.
5. Ensure that User certificates from at least two users, on their letterhead stating that the performance of similar make and model supplied to them is satisfactorily, is enclosed
6. Descriptive leaflet / brochure of the equipment quoted are enclosed along with the technical details.
7. Copy of the certificate for the calibration of similar make and model of the equipment / instrument for which bid is submitted from an accredited calibration laboratory or NPL, if applicable, is enclosed.
8. The Technical and commercial details are to be submitted separately super scribing "Cover "A"- Technical details for equipment or Cover "B" – Commercial details for equipments. Both the details are to be put together in one envelope and sealed properly, super scribing the name of the equipment's.
9. Proof regarding manufacturer / authorized agent, as the case may be, is enclosed.
10. Prior to submission of bids, bidders have to ensure that the equipment quoted by them is suitable for testing as per the national / international standard mentioned in the specification.
11. Cost details are to be given in the prescribed format only. If more than one model of equipment is quoted, separate sheet may be enclosed. may be given.

Note: If the bidder fails to furnish all the relevant document/ information as mentioned in the Tender Document, the Tender will be rejected.
