THIS IS A REQUEST FOR QUOTE (RFQ) FROM DOMESTIC (INDIA-BASED) MANUFACTURERS FOR THE INDIAN INSTITUTE OF SCIENCE (IISC), BANGALORE. THIS IS A REQUEST FOR QUOTE (RFQ) FROM THE INDIAN INSTITUTE OF SCIENCE (IISC), BANGALORE, FOR THE SUPPLY OF A CRYOGEN FREE HE3 CRYOSTAT WITH AT LEAST 8 T MAGNETIC FIELD.

<table>
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<td>Annexure 4: Declaration of acceptance of tender</td>
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<td>6</td>
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Section 1 - Bid Schedule

<table>
<thead>
<tr>
<th>1</th>
<th>Tender No</th>
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<tr>
<td>2</td>
<td>Tender Date</td>
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<td>3</td>
<td>Item Description</td>
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<td>4</td>
<td>Tender Type</td>
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<td>(i) Technical Bid (Part A)</td>
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<td></td>
<td>(ii) Commercial Bid (Part B)</td>
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<td>5</td>
<td>Place of tender submission</td>
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<td>6</td>
<td>Last Date &amp; Time for submission of tender</td>
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<td>7</td>
<td>For further clarification</td>
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Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder’s firm should have been in existence for a minimum of 3 years. (Enclose Company Registration Certificate)
2. The Bidder should belong to either class 1 or class 2 supplier distinguished by their “local content” as defined by recent edits to GFR. They should mention clearly which class they belong to in the cover letter.
   a) Class 1 supplier: Goods and services should have local content of equal to or more than 50%.
   b) Class 2 supplier: Goods and services should have local content of equal to or more than 20 % and less than 50%.
3. Purchase preference as defined by the recent edits to GFR (within the “margin of purchase preference”) will be given to Class-1 supplier.
4. MSME can seek exemption to some qualification criteria. IISc follows GFR2017 for such details
5. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.
6. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per Annexure 3.
Section 3 – Terms and Conditions

A) Submission of Tender:

1. All documentations in the tender should be in English.

2. Tender should be submitted in two envelopes (two bid system).
   a. Technical Bid (Part-A) – Technical bid consisting of all technical details and check list for conformance to technical specifications.

      The technical proposal should contain a technical compliance table with 5 columns.
      i. The first column must list the technical requirements, in the order that they are given in the technical requirement below.
      ii. The second column should provide specifications of the instrument against the requirement. Please provide quantitative responses wherever possible.
      iii. The third column should describe your compliance with a “Yes” or “No” only. Ensure that the entries in column 2 and column 3 are consistent.
      iv. The fourth column should state the reasons/explanations/context for deviations, if any.
      v. The fifth column can contain additional remarks from the OEM. You can use this opportunity to highlight technical features, qualify response of previous columns, or provide additional details, compare your solution with that of your competitors or provide details as requested in the technical requirements table below.

      Technical bid should also contain a list of customers serve in the last 5 years

   b. Commercial Bid (Part-B) – Indicating item wise price for the items mentioned in the technical bid, as per the format of quotation provided in tender, and other commercial terms and conditions.

3. The technical bid and price bid should each be placed in separate sealed covers, superscripting on both the envelopes the tender no. and the due date. Both these sealed covers are to be placed in a bigger cover which should also be sealed and duly superscripted with the Tender No, Tender Description & Due Date.

4. The SEALED COVER superscripting tender number / due date & should reach Chairperson Office, Centre for Nanoscience and Engineering, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day. If the quotation cover is not sealed, it will be rejected.

5. All queries are to be addressed to the person identified in “Section 1 – Bid Schedule” of the tender notice.
6. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders only).

7. If price is not quoted in Commercial Bid as per the format provided in tender document the bid is liable to be rejected.

8. The Institute reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.

9. Incomplete bids will be summarily rejected.

B) Cancellation of Tender:
   Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:
   a. To accept OR reject lowest tender or any other tender or all the tenders.
   b. To accept any tender in full or in part.
   c. To reject the tender, offer not confirming to the tender terms.

C) Validity of the Offer:
   The offer shall be valid 90 Days from the date of opening of the commercial bid.

D) Evaluation of Offer:
   1. The technical bid (Part A) will be opened first and evaluated.
   
   2. Bidders meeting the required eligibility criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
   
   3. Pre-qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision in regard to acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.
   
   4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
   
   5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
      a. Non-submission of complete offers.
b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).

c. Receipt of bids in open conditions.

6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.

7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.

8. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories selected for installation, operation, preprocessing and post processing, optional items, recommended spares, warranty, annual maintenance contract.

9. Quote should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.

10. The quotations should be on FOR-IISc Bangalore basis in INR only.

E) Pre-requisites:
   The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

F) Warranty:
   The complete system is to be under warranty period of minimum 3 years (year wise breakup value should be shown in the commercial bid) including free supply of consumables, spare parts and data analysis software from the date of functional installation. If the instrument is found to be defective, it has to be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc, Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

G) Annual Maintenance Contract:
   An annual maintenance contract for a period of atleast 2 years post warranty should be provided on completion of warranty period. The AMC costs will not be considered towards classifying the domestic nature (class 1 or class 2) of the vendor (see eligibility criteria in section 2).

H) Purchase Order:
   1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bangalore reserves the right to increase/decrease the quantity of the items depending on the requirement.

3. If the quality of the product and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

I) Delivery, Installation and Training:
The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The system should be delivered, installed and made functional within 90 days from the date of receipt of purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed.
The bidder should also arrange for technical training of users if required.

J) Payment Terms:
100% payments (except AMC) will be released after completion delivery and satisfactory installation subject to TDS as per rules. AMC cost (if ordered), after completion of warranty period) will be released on half-yearly basis at the end of each six months subject to satisfactory services. The AMC will be comprehensive. Price basis must be on FOR-IISc Bangalore basis only. As per GFR no advance payment can be made to domestic vendors, unless an equal amount of bank guarantee is provided.

K) Statutory Variation:
Any statutory increase in the taxes and duties subsequent to bidder’s offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc, Bangalore.

L) Disputes and Jurisdiction:
Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

M) General:
1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.

2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of tender, with prior intimation.

4. Any information furnished by the bidder found to be incorrect, either immediately or at a later date, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.

Section 4 – Technical Specifications

A. Technical Specifications of the Cryogen free He3 cryostat with at least 8 T magnetic field

He3 cryostat should have the following essential specifications:

1. **Base unit**: Cryogen free He3 cryostat with at least 8 T magnetic field.

2. **Magnet**: 8 T superconducting magnet having field homogeneity better than 0.1 % over 10 mm diameter sphere & integrated switch heater so that magnet can also run-in persistent mode. Please provide drivers for the magnet.

3. **Magnet power supply**: Four quadrants magnet power supply. Appropriate interfaces, mechanism of quench protection in case of power failure or problem with the pulse tube.

4. **He3 probe**: Guaranteed base temperature of at least 300 mK or less at the sample position with factory installed wiring and magnet fully energized. It should be demonstrated at the time of installation.
   a. **Temperature stability**: The temperature range for the He3 probe should be < 300mK to 300K or more. The typical temperature stability should be better than +/- 3 mK till 1.2 K and +/- 0.1 K above 1.2 K. Please provide supporting data.
   b. **Hold time**: The hold time at base temperature should be at least 40 hours or more with no heat load. The He3 probe provides a cooling power at 300 mK for 6 hrs with 50 μW applied.
   c. **He3**: Please specify the volume of He3 and its purity.
   d. **He3 Sample space diameter**: at least 1.5 inches or more
   e. **Sample space** and close loop He should be separated such that system can be maintained at low temperature for longer time without the need to warm up.

5. **VTI probe**:
   a. Temperature range for the variable temperature insert (VTI): 1.5 K to 300 K; with a temperature stability of +/- 0.05 K (measured in the default sample probe).
   b. Usable sample **space diameter of the VTI**: 50 mm.

6. **Temperature sensor and heater**: Appropriate heaters and calibrated sensors should be provided at first and stage of the VTI. Calibrated cernox sensor should be installed on the magnet. The calibrated ruthenium and cernox sensors should be installed in He3 probe and 1.5 K probes, respectively. The data sheet should be provided with the calibration curve of each temperature sensor and the type of heater.
7. **Compressor and cryocooler:** Pulse tube with two stages of cooling should have vibrational isolation from rest of the cryostat. Pulse tube and compressor should be electrically isolated from the Cryostat. Cooling power of the pulse tube should be **at least 1 W at 4.2 K.** Specify the pulse tube model. Appropriate water cooled helium compressor with full charge of high purity Helium gas, with at least 15 m flexible SS lines. Electrical and cooling water requirements for the compressor must be specified. Maintenance interval for the compressor must be at least 30,000 hours and for the cold head must be at least 20,000 hours.

8. **Electrical Isolation:** The Cryostat should be electrically isolated from Frame, Controller unit, and compressor.

9. **Wiring:** All the wirings need to be thermally anchored at different stages of the cryostat. All the wiring should be terminated with suitable connectors (preferably Fischer connector) at the room temperature.

   # VTI probe
   
   (a) At least **40 (20 twisted pair)** Constantan wire from room temperature to cold head.
   
   (b) At least **6 flexible coaxial cables** with suitable termination down to sample holder. The wires should have suitable connectors terminating at top (preferably SMA connector) **and/or**
   
   (c) **4 semi rigid high frequency/RF coax lines** (UT85 SS-SS frequency up to 20 GHz) with SMA connector on one end and left loose at sample end.

   # For He3 probe
   
   (a) At least **24 (12 twisted pair)** Constantan wire from room temperature to cold head.
   
   (b) At least **6 flexible coaxial cables** with suitable termination down to sample holder. The wires should have suitable connectors terminating at top (preferably SMA connector) **and/or**
   
   (c) **4 semi rigid high frequency/RF coax lines** (UT85 SS-SS frequency up to 20 GHz) with SMA connector on one end and left loose at sample end.

10. Insulation (> G Ohm) between twisted pair, between wire and chassis and between inner and outer coax

11. Appropriate Water Chiller

12. Appropriate dry scroll pump for the VTI space including hoses, valves.

13. Software for the control of temperature, magnet, and the system. The software must allow manual, semi-automatic and fully automatic control of the equipment. Additionally, it should be possible to control the cryostat along with magnet using the standard worldwide used software (e.g., MATLAB, LabVIEW) based on GPIB/RS232. The software should be based on Windows 10 or higher versions. Free upgrade of software.

14. Testing and training should be done during onsite installation.

15. Manual and supporting documents; Soft Copy as well as hard copy.

16. Factory trained service people should be available in India and most preferably in Bangalore.

17. Please provide compliance statement.
Optional Items:

1. **Magnet**: 12 T superconducting magnet having field homogeneity better than 0.1 % over 10 mm diameter sphere & integrated switch heater so that magnet can also run-in persistent mode. Please provide drivers for the magnet.

2. Air compressor for the pneumatic valve

3. Turbo pumping station from reputed companies.

4. Vibration isolation support mount.

5. Additional two-year warranty

B. Spares and accessories

NA

C. Training and demonstration

NA

Section 5- Technical Bid

The technical bid should furnish all requirements of the tender along with all annexures in this section and submitted to

The Chairperson,
Attn: Dr. Akshay Naik
Centre for Nano Science and Engineering
Indian Institute of Science
Bangalore – 560012, India
Annexure-1:
Details of the Bidder
The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

Details of the Bidder

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Items</th>
<th>Details</th>
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<tbody>
<tr>
<td>1.</td>
<td>Name of the Bidder</td>
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<tr>
<td>2.</td>
<td>Nature of Bidder (Attach attested copy of Certificate of Incorporation/ Partnership Deed)</td>
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<td>3.</td>
<td>Registration No/ Trade License, (attach attested copy)</td>
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<td>4.</td>
<td>Registered Office Address</td>
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<td>5.</td>
<td>Address for communication</td>
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<td>6.</td>
<td>Contact person- Name and Designation</td>
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<td>7.</td>
<td>Telephone No</td>
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<td>8.</td>
<td>Email ID</td>
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<td>9.</td>
<td>Website</td>
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<td>10.</td>
<td>PAN No. (attach copy)</td>
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<td>11.</td>
<td>GST No. (attach copy)</td>
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Signature of the Bidder

Name
Designation, Seal
Date:
Annexure-2:
Declaration regarding experience

To,
The Chairperson,
Centre for Nanoscience and Engineering,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXX
Dated: XXXXX

Supply of a He3 cryostat with 8T magnet to, CeNSE, IISc Bangalore

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying laser sources.

(Signature of the Bidder)
Printed Name
Designation, Seal Date:
Annexure-3:

Declaration regarding track record

To,
The Chairperson,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXX
Dated: XXXXX

Supply of a He3 cryostat with 8T magnet to CeNSE, IISc Bangalore

Sir,
I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred / blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following

<table>
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<tr>
<th>Sl.No</th>
<th>Country in which the company is Debarred /blacklisted / case is Pending</th>
<th>Blacklisted / debarred by Government / Semi Government/Organizations /Institutions</th>
<th>Reason</th>
<th>Since when and for how long</th>
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(Note: In case the company / firm was blacklisted previously, please provide the details regarding period for which the company / firm was blacklisted and the reason/s for the same).

Yours faithfully
(Signature of the Bidder)

Name
Designation, Seal

Date:
Annexure – 4:

Declaration for acceptance of terms and conditions

To,
The Chairperson,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX
Dated: XXXX

Supply of a He3 cryostat with 8T magnet to CeNSE, IISc Bangalore

Sir,

I’ve carefully gone through the Terms & Conditions as mentioned in the above referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I’m an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)
Name
Designation, Seal
Date:
Annexure – 5:

Details of items quoted:

- Company Name
- Product Name
- Part / Catalogue number
- Product description / main features
- Detailed technical specifications
- Remarks

Instructions to bidders:

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.

Section 6 – Commercial Bid

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

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<th>S.No</th>
<th>Description</th>
<th>Cat. Number</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Sub total</th>
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<tbody>
<tr>
<td>1.</td>
<td>Essential items noted in the technical specification</td>
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<tr>
<td>1.a</td>
<td>... (details of essential items)</td>
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<td>1.b</td>
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<td>2.</td>
<td>Optional items noted in the technical specification</td>
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<td>2.a</td>
<td>... (details of essential items)</td>
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<td>3.</td>
<td>Accessories for operation and installation</td>
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<td>4.</td>
<td>All Consumables, spares and software to be supplied locally</td>
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<td>5.</td>
<td>Warranty (3 years)</td>
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<td>6.</td>
<td>AMC 2 years beyond warranty</td>
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<td>7.</td>
<td>Cost of Insurance and Airfreight</td>
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<td>8.</td>
<td>CIP/CIF IISc, Bengaluru</td>
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Any additional items

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<tr>
<th>S.No</th>
<th>Description</th>
<th>Cat. Number</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Sub total</th>
</tr>
</thead>
</table>
Addressed to

The Chairperson,
Attn: Dr. Akshay Naik
Centre for Nano Science and Engineering
Indian Institute of Science
Bangalore – 560012, India
Section 7 – Checklist

(This should be enclosed with technical bid- Part A)
The following items must be checked before the Bid is submitted:

1. Sealed Envelope “A”: Technical Bid
   1. Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:
      a. Annexure 1: Bidders details
      b. Annexure 2: Declaration regarding experience
      c. Annexure 3: Declaration regarding clean track record
      d. Annexure 4: Declaration for acceptance of terms and conditions
      e. Annexure 5: Details of items quoted
   2. Copy of this tender document duly signed by the authorized signatory on every page and sealed.

2. Sealed Envelop “B”: Commercial Bid
   Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribining on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No., Tender description & Due Date.