DOMESTIC TENDER FOR Virtual Network and Spectrum Analyzer

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<th>Details</th>
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<td>Annexure 5: Terms and conditions. Details of item quoted</td>
</tr>
<tr>
<td>6</td>
<td>Section 6 Commercial bid</td>
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</tr>
</tbody>
</table>


# Section 1 - Bid Schedule

<table>
<thead>
<tr>
<th></th>
<th>Tender No</th>
<th>CeNSE/AMG/01/24-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Tender Date</td>
<td>17.05.2025</td>
</tr>
<tr>
<td>3</td>
<td>Item Description</td>
<td>Virtual Network Analyzer and Spectrum Analyzer</td>
</tr>
<tr>
<td>4</td>
<td>Tender Type</td>
<td>Two bid system</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(i) Technical Bid (Part A)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ii) Commercial Bid (Part B)</td>
</tr>
<tr>
<td>5</td>
<td>Place of tender submission</td>
<td>Prof. Ambarish Ghosh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SF03</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Centre for Nano Science and Engineering</td>
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<tr>
<td></td>
<td></td>
<td>Indian Institute of Science, Bangalore 560012</td>
</tr>
<tr>
<td>6</td>
<td>Last Date &amp; Time for submission of tender</td>
<td>5 PM, June 7, 2024 (3 weeks from tender date)</td>
</tr>
<tr>
<td>7</td>
<td>For further clarification</td>
<td>Ambarish Ghosh</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Room No: SF03</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Center for Nano Science and Engineering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indian Institute of Science, Bangalore 560012</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Email: <a href="mailto:ambarish@iisc.ac.in">ambarish@iisc.ac.in</a></td>
</tr>
</tbody>
</table>
Section 2 – Eligibility Criteria

Prequalification criteria:

1. The Bidder’s firm should have 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. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -Annexure 4.

5. 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 proposal should contain a compliance table with 4 columns in addition to the ones in the technical requirements table that has been included with this RFQ below. The compliance table should include all the items in the same order and format. The first column should describe your compliance in a “Yes” or “No” response. If “No” the second column should state the extent of deviation. The “third” column should state the reasons for the deviation if any. The fourth column can be used to compare your tool with that of your competitors or provide details as requested in the technical requirements table below. (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
   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 Prof. Ambarish Ghosh, room SF03, Centre for Nano Science 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.

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

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

12. Bidders offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.

13. MSMEs can seek an exemption to some qualification criteria. IISc follows GFR2017 for such details.

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.

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 1 years 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 2 years post warranty should be provided on completion of warranty period. If not possible, ample justification is needed.

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 to the local facility technologists and
users.

J) Payment Terms:
The payment will be through a Letter of Credit and milestone of the payment will be
determined after the mutual discussions with the successful bidder.

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. All imported equipment should be quoted in the currency of the country of origin, and
all locally sourced items should be quoted in Indian Rupees.

5. 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. Virtual Network Analyzer

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Specification</th>
<th>Essential/Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Frequency range of 1MHz to at least 13GHz</td>
<td>Essential</td>
</tr>
<tr>
<td>2.</td>
<td>Ability to measure all four S-parameters Simultaneously</td>
<td>Essential</td>
</tr>
<tr>
<td>3.</td>
<td>Reverse sweep capability</td>
<td>Essential</td>
</tr>
<tr>
<td>4.</td>
<td>Minimum 2 ports</td>
<td>Essential</td>
</tr>
<tr>
<td>5.</td>
<td>User configurable quad-display</td>
<td>Essential</td>
</tr>
<tr>
<td>6.</td>
<td>Saves S2P files (multiple formats), measurement files (.svna), screen images (.png), CSV and TXT files</td>
<td>Essential</td>
</tr>
<tr>
<td>7.</td>
<td>Ethernet/USB connectivity</td>
<td>Essential</td>
</tr>
<tr>
<td>8.</td>
<td>Fast sweeps (&lt; 600us/point)</td>
<td>Essential</td>
</tr>
<tr>
<td>9.</td>
<td>Port reference plane extension</td>
<td>Essential</td>
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<tr>
<td>10.</td>
<td>Independent markers and limits per trace</td>
<td>Essential</td>
</tr>
</tbody>
</table>

B. Spectrum Analyzer

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Specification</th>
<th>Essential/Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Frequency range of 1MHz to at least 13GHz</td>
<td>Essential</td>
</tr>
<tr>
<td>2.</td>
<td>1Hz to 10MHz resolution bandwidth</td>
<td>Essential</td>
</tr>
</tbody>
</table>

It is fine if the vendor provides the Vector Network Analyzer and Spectrum Analyzer with the above essential specifications combined in a single entity or model. Alternately, they can provide two standalone items.

C. Accessories

Calibration kit for VNA is essential

D. Training and demonstration

Optional: Training on usage of the machine (hardware and software) must be demonstrated by the successful bidder at bidder’s cost to the end users at IISc, Bangalore.
Section 5- Technical Bid

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

Prof. Ambarish Ghosh,
Attn: Shriganesh N
Room SF-03
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>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Name of the Bidder</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Nature of Bidder (Attach attested copy of Certificate of Incorporation/</td>
<td></td>
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<tr>
<td></td>
<td>Partnership Deed)</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Registration No/ Trade License, (attach attested copy)</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Registered Office Address</td>
<td></td>
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<tr>
<td>5.</td>
<td>Address for communication</td>
<td></td>
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<tr>
<td>6.</td>
<td>Contact person- Name and Designation</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Telephone No</td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Email ID</td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Website</td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>PAN No. (attach copy)</td>
<td></td>
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<tr>
<td>11.</td>
<td>GST No. (attach copy)</td>
<td></td>
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</tbody>
</table>

Signature of the Bidder

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

To,
Prof. Ambarish Ghosh,
Centre for Nano Science and Engineering,
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXXXXX
Dated: XXXXX

Supply and installation of a Virtual Network and Spectrum Analyzer at 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 and installing this item.

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

Declaration regarding track record

To,
Prof. Ambarish Ghosh,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX
Dated: XXXXX

Supply and installation of a Virtual Network Analyzer and Spectrum Analyzer at 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>
<thead>
<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>
</tr>
</thead>
</table>

(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,
Prof. Ambarish Ghosh,
Centre for Nano Science and Engineering
Indian Institute of Science,
Bangalore – 560012, India

Ref: Tender No: XXXXXX
Dated: XXXX

Supply and installation of a Virtual Network Analyzer and Spectrum Analyzer at
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:
   a. Company Name
   b. Product Name
   c. Part / Catalogue number
   d. Product description / main features
   e. Detailed technical specifications
   f. 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:

<table>
<thead>
<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>
<tbody>
<tr>
<td>1.</td>
<td>Essential items noted in the technical specification</td>
<td></td>
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</tr>
<tr>
<td>1.a</td>
<td>... (details of essential items)</td>
<td></td>
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<td></td>
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<tr>
<td>1.b</td>
<td>...</td>
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<tr>
<td>2.</td>
<td>Optional items noted in the technical specification</td>
<td></td>
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<tr>
<td>2.a</td>
<td>... (details of essential items)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.b</td>
<td>...</td>
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<tr>
<td>3.</td>
<td>Accessories for operation and installation</td>
<td></td>
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<tr>
<td>4.</td>
<td>All Consumables, spares and software to be supplied locally</td>
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<tr>
<td>5.</td>
<td>Warranty (5 years)</td>
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<td>6.</td>
<td>AMC 2 years beyond warranty</td>
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<tr>
<td>8.</td>
<td>FOR IISc, Bengaluru</td>
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</table>

Any additional items

<table>
<thead>
<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: Prof. Ambarish Ghosh
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 Envelope “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 scribing 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.