

TATA INSTITUTE OF FUNDAMENTAL RESEARCH
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Date: 18-10-2023

Public Tender Ref. No. TIFR/PD/CA23-04/23-24/M/04 for Supply, Installation and Commissioning of State of the art 900 MHz NMR Spectrometer to carry out solid and solution state high-resolution NMR experiments to TIFR Hyderabad.

Sub: Pre Bid meeting Clarification against Tender Ref. No. TIFR/PD/CA23-04/23-24/M/04 for Supply, Installation and Commissioning of State of the art 900 MHz NMR Spectrometer to carry out solid and solution state high-resolution NMR experiments to TIFR Hyderabad.

Dear Bidders/Vendors,

With reference to above Public tender, the following bidders are participated in the pre bid meeting on 16-10-2023 at 11.00Hrs

1. M/s. Bruker Switzerland
2. M/s. Bruker India Scientific Pvt. Ltd.

The above bidders participated through Zoom/at TIFR Hyderabad for the Technical and Commercial details of the above Tender.

Technical and Commercial clarification are as follows:

Refer Page 4 of Annexure –A of tender document

V. Probes:

1. A magic-angle-spinning probe tunable to the ^1H , ^{13}C , ^{15}N nuclei and allow simultaneously pulsing on these nuclei and a spinning frequency of 24 kHz or more. This probe should have low electrical field inside the RF coil to reduce RF-induced heating of the sample for use with lossy biological solids Maximum nutation frequencies of at least 100 kHz, 80 kHz and 55 kHz on ^1H , ^{13}C and ^{15}N channels should be possible. ^1H decoupling of 100 kHz (50ms) should be possible. Permissible temperature range should be -50°C to $+50^\circ\text{C}$.

2. A magic-angle-spinning probe tunable to ^1H and X nuclei (where X is another nucleus) (spinning frequency of 24 kHz or more), and allow simultaneous pulsing on both these nuclei. The lowest frequency to which this probe can be tuned on the X-channel should be 103Rh. The highest frequency to which the X-channel can be tuned should be specified. Maximum nutation frequencies of at least 100 kHz on ^1H channel should be possible. ^1H decoupling of 100 kHz (50 ms) should be possible. Permissible temperature range should be -50°C to $+50^\circ\text{C}$.

<p><u>Clarification Sought:</u> From amongst of the solid-state NMR probes that were requested, whether a specific rotor diameter was being sought for probe at point number 1 and 2 above.</p>	<p><u>TIFRH Response:</u> TIFR Hyderabad clarified that only the possible spinning frequencies are specified in the tender and rotor diameters have not been specified. Any rotor diameter that satisfy specified spinning frequencies is acceptable as long as it satisfies the mentioned requirements in the tender.</p>
<p>Refer Page 6 of Annexure –A of tender document VII. Requirements and conditions for Items I, II and III above:</p> <p>2. Two years standard warranty of the entire spectrometer from the date of successful installation should be provided.</p>	
<p><u>Clarification Sought:</u> The Bidder has standard warranty of one year for the equipment but tender required two years of standard warranty.</p>	<p><u>TIFRH Response:</u> TIFR Hyderabad required 2 years of the standard warranty from date of successful installation and acceptance of the equipment as per tender.</p>
<p>3. After completion of standard warranty of 2 (Two) years, an option of an additional comprehensive annual maintenance contract (CAMC) for five years including maintenance service , all parts and peripherals should be provided. The CAMC should include the cost of all the items required for smooth functioning of the spectrometer. During the CAMC period, the defective items, parts, peripherals or modules should be replaced by the supplier at their cost.</p>	
<p><u>Clarification Sought:</u> A) Whether this comprehensive maintenance contract should cover the magnet. B) Whether the comprehensive maintenance contract includes cryogenes for the duration of the contract.</p>	<p><u>TIFRH Response:</u> A) The bidder should provide optional quote for comprehensive maintenance contracts both, with the magnet covered, and without the magnet covered. B) The comprehensive maintenance contract should not include cryogenes.</p>
<p>4. On-site training for operation and maintenance should be given during the installation.</p>	
<p><u>Clarification Sought:</u> Several versions of training programmes are offered by the vendor. Which of these should be quoted.</p>	<p><u>TIFRH Response:</u> The Bidder should quote for the training programme that will enable routine maintenance of the electronics, cryogen monitoring and refilling, and monitoring of spectrometer performance.</p>
<p>8. Liquid Helium required for installation and topping off the magnet should be provided by the vendor and should be included in the basic cost of spectrometer</p>	
<p><u>Clarification Sought:</u> Whether the Liquid Helium required to be quote in USD.</p>	<p><u>TIFRH Response:</u> The liquid helium required can be supplied locally. It should be included in the quotation as per tender.</p>

Refer Page 10, 11 of Annexure –A of tender document – Terms and Conditions

17. Payment Terms for Import Items: 100% irrevocable Letter of Credit (L/C) will be opened. 80% payment shall be made through irrevocable Letter of Credit (L/C) against submission of clear shipping documents and balance 20% of the amount shall be released through irrevocable Letter of credit (L/C) after successful installation, acceptance of the equipment certified by TIFR Hyderabad and on submission of "Performance Security" for an amount equivalent to 5% of the Purchase Order Value.

18. Payment Terms for Indigenous Items: 100% payment shall be released after receipt of complete material as per purchase order in a single lot, successful installation and acceptance of the equipment certified by TIFR Hyderabad and on submission of "Performance Security" for an amount equivalent to 5% of the Purchase Order Value.

Clarification Sought:

The Tender included two payment terms. It was requested that we clarify the reasons for two separate payment terms.

TIFRH Response:

Payment term for the imported items will be through Irrevocable Letter of credit.

100% irrevocable Letter of Credit (L/C) will be opened. 80% payment shall be made through irrevocable Letter of Credit (L/C) against submission of clear shipping documents and balance 20% of the amount shall be released through irrevocable Letter of credit (L/C) after successful installation, acceptance of the equipment certified by TIFR Hyderabad and on submission of "Performance Security" for an amount equivalent to 5% of the Purchase Order Value.

Payment Terms for the Local Supply Indigenous Items will be 100% payment shall be released after receipt of complete material as per purchase order in a single lot, successful Installation and acceptance of the equipment certified by TIFR Hyderabad and on submission of "Performance Security" for an amount equivalent to 5% of the Purchase Order Value.

21. Pre Inspection Report: The successful bidder should submit the Pre Inspection Report / Manufacturer's Test Certificate with data sheet to TIFR Hyderabad before dispatch of the material at no extra cost to the purchaser. (If required by TIFR Hyderabad).

Clarification Sought:

Is Pre Inspection Report is required to be submitted before dispatch of material.

TIFRH Response:

Instruments along with Accessories are to be duly inspected, tested and certified by the relevant inspection agency (or) Quality Department and the Inspection Report / Manufacturer's Test Certificate with data sheet to be forwarded to TIFR Hyderabad before dispatch of the material at no extra cost to the purchaser.

26. Delivery Period: Within 2 years from the date of release of Purchase Order.	
<u>Clarification Sought:</u> Within 2 years from the date of release of Purchase Order (or) from the date of Letter of Credit.	<u>TIFRH Response:</u> Delivery Period within 2 years from the date of release of Purchase Order only as per the tender.
27. Installation Period: The Installation should be completed within a month from the date of receipt of the material at TIFR Hyderabad.	
<u>Clarification Sought:</u> Installation of a spectrometer of this field strength will take more than a month's time due to the following reasons: A) Since this is a very high field magnet, the magnetic field in this magnet is expected to drift for a period of 2-3 months after charging is completed. B) Installation of each of the 8 probes on will take at least 4-5 days each. C) Considering these, it will not be possible to complete the installation of the magnet in one month.	<u>TIFRH Response:</u> Considering above point, TIFR Hyderabad will consider for amendment of installation period of the tender.

**ADMINISTRATIVE OFFICER
(PURCHASE SECTION)
TIFR, HYDERABAD**