INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

500 MHz high resolution FT-NMR spectrometer

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/ BROCHURE/ PUBLISHED LITERATURE (as proof of the specs). The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than 13.04.2015 at 15:00 hrs at the following address:

HOD
Department of Chemistry,
Indian Institute of Technology Kharagpur,
Pin-721 302, West Bengal, India

Earnest money of Rs. 1,00,000/- is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

<table>
<thead>
<tr>
<th>Tender Reference</th>
<th>IIT/SRIC/CHY/FIST/DRM/2014-15/EQ-1, Dated: 16.03.2015</th>
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<tr>
<td>Price of Tender Document</td>
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<tr>
<td>Last Date and Time for submitting the tender document</td>
<td>13.04.2015, 15:00 Hrs (Indian time)</td>
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<td>Time and Date of Opening of Bids</td>
<td>13.04.2015, 16:00 Hrs (Indian time)</td>
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<tr>
<td>Place of Opening tender offers</td>
<td>Department of Chemistry,</td>
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<td>Indian Institute of Technology</td>
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<td>Kharagpur – 721 302, West Bengal, India</td>
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<td>Address of Communication</td>
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<tr>
<td>Contact Telephone Numbers</td>
<td>+91- 3222 - 28 3318</td>
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<tr>
<td>E-mail</td>
<td><a href="mailto:dmal@chem.iitkgp.ernet.in">dmal@chem.iitkgp.ernet.in</a></td>
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Detailed Specifications for
500 MHz high resolution FT-NMR spectrometer

Magnet and operating frequency:
1. Latest technology based stable and actively shielded superconducting magnet with an operational frequency of 500 MHz (11.75 T) for $^1$H
2. Liquid helium holding time: 365 days
3. Liquid helium and liquid helium level indicator and alarm
4. Anti-vibration platform/stand (mention the lower limit of the damping frequency vibration)
5. Liquid helium transfer line
6. Standard test samples for multinuclear studies
7. Minimum of 30 room temperature shims

Console:
1. The console should be upgradable for accommodating third channel
2. Two broadband channels RF systems for $^1$H, $^{13}$C, $^{15}$N, $^{31}$P, $^{19}$F and other active nuclei. Amplifiers provides high frequency and phase resolution. Mention the frequency scale of operation along with configuration and band width of each channel.
3. Automatic high performance gradient shimming for 1D and 2D along with lock, spin and insert / eject.
4. Deuterium lock channel with high precision phase and field correction.
5. Receiver System with high dynamic range and minimal quadrature images and artefacts.
6. Appropriate amplifiers / preamplifiers for each channel for observation or decoupling of $^1$H or $^{19}$F (at least 80 W) and in the range of $^{31}$P to $^{15}$N (at least 200 W)/$^{109}$Ag for routine $^1$H detected HSQC/HMBC experiments also.
7. Variable temperature unit with all components for both high (+150 °C or higher) and low (-80 °C or lower) temperature.

Probes:
1. Multinuclear Z-gradient based broad band probe (5 mm) with automatic tuning and matching facility for observation of $^1$H nuclei with $^{19}$F decoupling or $^{19}$F observe with $^1$H decoupling and for observation of nuclei in the range of $^{31}$P to $^{15}$N etc. with $^1$H decoupling/observe.
2. Probes should be equipped for variable temperature experiments ($\leq$-80 °C to $\geq+150^0$ °C) with suitable attachment.
3. Automated Frequency switching and sensing for multi-nuclei operation. The probe has to perform $^1$H, $^{13}$C, $^{15}$N, $^{31}$P, $^{19}$F related 1D and 2D NMR experiments.
4. $^{13}$C and $^{19}$F with 1H decoupling should show excellent sensitivity. No manual reconfiguration should be required.

5. The probe should allow 1H NMR measurements with highest solvent suppression. Any accessories/softwares required to conduct above experiments are to be mentioned and included.

**User interface:**

1. Two high performance state-of-the-art workstation with tools/software/data cards for data acquisition, processing, plotting, structure verification, spectral simulation and multiple analyses of 1D and 2D (HSQC, TOCSY, COSY, HETCOR, NOESY, HMBC, DOSY, DQF COSY, J-resolve). One workstation should be equipped with Linux/Windows based software for data collection and processing.
2. LCD monitor (24 inch), Laser printer (color).
3. NMR softwares for acquisition and processing including pulse sequence program.
4. All required documents, manuals, installation CDs/DVDs etc. for hardware and software.
5. Data processing software should be compatible with Windows, Linux and Mac operating system on any PC or Laptop.

**Indigenous items (Make and model should be mentioned):**

1. A suitable UPS for the whole system with a minimum of one hour backup time. Make and model should be mentioned.
2. A suitable **oil-free scroll air-compressor** complete with dryer and proper ratings/specification capable of catering to all the needs. Make and model should be mentioned.
3. Three Cryocans (50-55 lit each) with liquid nitrogen transfer lines.

**Installation and maintenance:**

1. The vendor should have established service base in Kolkata region. All contact details, including email and phone numbers of the office/s and personnel should be provided.
2. The vendor must take the responsibility to procure liquid helium for installation of the magnet and subsequent periodic refilling.

**Comprehensive maintenance warranty:**

1. Comprehensive on-site warranty for 3-years on the complete instrument and accessories excluding consumables as mentioned above from the date of satisfactory installation of the spectrometer including: a. All parts and labor, free maintenance and service, regular upgrading of all softwares.
2. Charges of individual components should be mentioned separately.

**Training:**

1. Initial on-site training to the staff for two weeks.
2. Comprehensive training for two persons for 2-3 weeks at the vendor’s application laboratory in India.
Optional items:

1. Third channel with H-C-N 5mm inverse probe
2. 20 licenses for processing software
3. Auto sampler for 64 samples
4. 500 numbers of NMR tubes

General information:

1. The technical specifications should be quoted in the same manner as described in the technical specifications desired in the tender. A compliance report should be attached in this regard.
2. Vendor should provide a certificate that the spares will be provided in future for a period of ten years.
3. The vendor should provide the total number of installations of 500 MHz NMR instruments installed by the Vendor in India from January 2009 to till date. Please enclose full list of such users in India with contact name/email/phone.
4. At least three installations of 500 MHz instruments should be in India in last 5 years.
5. The performance certificate from the customers may be required at a later stage and the vendor shall be responsible for providing the same when required.
6. Indicate room size requirements for the magnet and console.
7. Please specify the shortest possible delivery time for the equipment from the date of opening of LC.
8. The performance of the existing installations in India may be taken into account for evaluation of the tender.
9. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before / after placing the Purchase Order.
10. Indigenous items should be quoted in INR.

Mandatory compliance sheet (IIT Kharagpur)
(Must fill and submit with the technical bid)

<table>
<thead>
<tr>
<th>Items</th>
<th>Tender specifications of IIT Kharagpur</th>
<th>Specification provided by the company</th>
<th>Compliance (yes/no)</th>
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<td>Console</td>
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GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER:--

1. TENDER ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY’S / FIRM’S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.

THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:

1.1 FOREIGN PRINCIPAL’S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.

1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.

1.3 PLEASE ENCLOSE THE DOCUMENT(S) RELATED TO THE ENLISTMENT OF THE INDIAN AGENT WITH DIRECTOR GENERAL OF SUPPLIES & DISPOSALS (DGS & R) UNDER THE COMPULSORY REGISTRATION SCHEME OF MINISTRY OF FINANCE.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.

3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.

4. PRICE BIDS FOR FOREIGN FIRMS: PRICES ARE TO BE QUOTED ON ‘EX-WORKS’ DULY PACKED OR ON “FCA/FOB” INTERNATIONAL PORT’ BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP:-

I) EX-WORKS PRICE
II) PACKING & FORWARDING
III) FREIGHT
IV) ANY OTHER RELEVANT EXPENSES.
V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS: PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. PERIOD OF VALIDITY: BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.

6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN FE). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR
PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.

7. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).

8. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING

9. **PAYMENT TERMS** FOR FOREIGN FIRMS

   A) 100% PAYMENT THROUGH SIGHTDRAFT/FORIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

   B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

**PAYMENT TERMS** FOR INDIAN FIRMS

   A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION.

   B) ENSURE MENTIONING

   i) BANK DETAILS OF THE BENEFICIARY AND PAN NUMBER

   ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.

11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.


13. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IT THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.

14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.

15. ONLY THOSE BIDDERS WHO’S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.

16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.

18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.

19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-

A) CURRENT INCOME TAX AND SALES TAX CLEARANCE CERTIFICATES AND PAN NO.

C) BANKER’S SOLVENCY CERTIFICATE

C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY’S KEY PERFORMANCE

<table>
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<tr>
<th>DESCRIPTION</th>
<th>JAN. TO MARCH</th>
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<td>CAPITAL (ROIC)</td>
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D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. WARRANTY / GUARANTEE: THIS COMPREHENSIVE WARRANTY / GUARANTEE SHALL REMAIN VALID FOR 36 MONTHS AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.

21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO’S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO HOD, DEPARTMENT OF CHEMISTRY, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - 721 302 AND ACKNOWLEDGEMENT TO BE OBTAINED.
IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.

2. Promptly make arrangements for repair and / or replacement of any damaged item(s) irrespective of settlement of claim.

3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.

4. For any query pertaining to this bid document correspondence may be addressed to Prof. Dipakranjan Mal, at the address mentioned above.

LAST DATE FOR SUBMISSION OF SEALED BIDS: 13.04.2015

1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
2) Fax, e-mail Tender will not be accepted.
3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service other terms and conditions of the Institute will apply.