

**OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY
DIBRUGARH :: ASSAM
PIN: 786 004**



BID DOCUMENT

FOR

**NAME OF THE WORK: Supply and Installation of 500 MHz FT-NMR Spectrometer,
Dibrugarh University, Dibrugarh – 786004, Assam.**

TENDER No: DU/RG/B.01.07/17/2366 Date: 01.12.2017



OFFICE OF THE REGISTRAR :: DIBRUGARH UNIVERSITY :: DIBRUGARH

No. DU/RG/B.01.07/17/2366

Date: 01.12.2017

Tender Notice

Sealed Quotations are invited from reputed manufacturers / authorized dealers for supply & installation of **500 MHz FT-NMR Spectrometer** for, Dibrugarh University, Assam

Availability of Bid papers	From 01.12.2017 to 11.12.2017 between 10:00 A.M. to 5:00 P.M.
Last date for receipt of Bid	12.12.2017 upto 11:00 A.M.
Time & Date of opening of Bid	12.12.2017 at 02:30 P.M.
Place of opening of Bid	Office of the Registrar, DU
Cost of Document	1000/- Non refundable
EMD	2.5 % of the total tendered value

The tender documents can be downloaded or obtained on any working day during office hours between 10:00 AM to 5:00 PM from the office of the undersigned, by paying the cost of tender document in the form of Bank Draft in favour of **The Registrar, Dibrugarh University**, payable at Dibrugarh. In case, the form downloaded from the Dibrugarh University Website, the tendering firm must submit the Cost of Tender Document in the form of Demand Draft along with the Technical Bid of the Tender.

The tender should be submitted in two separate sealed envelopes *i.e.* **Part - I TECHNICAL BID** along with EMD as mentioned above, in the form of Demand Draft or Bank Guarantee in favour of **Registrar, Dibrugarh University, Dibrugarh, Assam payable at State Bank of India, Dibrugarh University Branch** and **Part – II FINANCIAL BID**. The technical bid shall be opened on above mentioned date and time and the financial bid of only those bidders who qualify in technical bid shall be opened at a later date. Dibrugarh University reserves all the rights to reject any or all the tenders without assigning any reason thereof.

Sd/-
Registrar
Dibrugarh University

OFFICE OF THE REGISTRAR : DIBRUGARH UNIVERSITY : DIBRUGARH

TENDER NOTICE No.: DU/RG/B.01.07/17/2366

Date: 01 .12.2017

General Information:

1. Tender forms, specification of instrument & terms and condition are available on the Dibrugarh University website www.dibru.ac.in
2. The tender forms will also be issued by the Office of the Registrar, Dibrugarh University, Dibrugarh on payment of Tender Document fee until one day prior to the date for submitting quotation.
3. The quotations received after the last date and time will not be considered. The undersigned will not be responsible for any delay in receiving or non-receipt of quotations.
4. The bidder will have to submit a bank draft of earnest money drawn in favour of Registrar, Dibrugarh University, payable at Dibrugarh. This will be refundable after the finalization of the quotation without interest.
5. The successful bidder, on receipt of supply order, will have to deposit 10 % of the cost of the quoted instrument as security money in the form of fixed time deposit for a period of 18 months which will be refundable as per terms & conditions of the tender.
6. The “Technical bid” marked envelope should contain duly filled tender documents, Bank draft for Earnest Money, clearance certificates of Commercial tax, Technical specifications of instrument, pamphlet/catalogue, letter of authorization from Principal/Manufacturer, list of customers, financial status of the company etc. as per requirement of terms & conditions of tender.

Price of equipment etc. along with relevant details pertaining to the financial aspect of the bid should be provided in a separate sealed envelope marked "Financial bid". The sealed tender envelopes will be accepted up-to **11:00 AM** on **12.12.2017** in the office of the Registrar, Dibrugarh University, Dibrugarh-786004, Assam.

7. Sealed envelopes of the Technical Bid will be opened on **12.12.2017** at **02:30 PM** in the office of the Office of the Registrar, Dibrugarh University in the presence of the bidder or their representatives. Technically qualified bidder will be informed for opening of “Financial bid.”

8. The undersigned reserves the right to postpone, accept or reject the tenders in full or in part of this notice without assigning any reason. The undersigned also reserves the right to change/modify the numbers of units/sets required.
9. In case of Imported Equipments, Custom Duty, Custom Clearance, Airway House charger, Transportation charges of equipments up to Dibrugarh University, Dibrugarh shall be borne by the supplier.

Important Note:

1. Tenders not fulfilling the terms and conditions of the tender are liable to be rejected.
2. Dibrugarh University reserves the right to Add / modify / relax or waive any of the conditions stipulated in the tender document whenever deemed necessary.

Sd/-
Registrar
Dibrugarh University

Copy to:

1. The Hon'ble Vice-Chancellor, D.U. for favour of kind information.
2. The Assistant Registrar (F&A), D.U. for information.
3. Dibrugarh University Website
4. Office File

Sd/-
Registrar
Dibrugarh University

GENERAL TERMS AND CONDITIONS OF TENDER

No. DU/RG/B.01.07/17/2366

Date: 01.12 .2017

1. Tender form of the above mentioned Laboratory Equipment for Dibrugarh University, Assam shall be sent properly in double sealed envelopes, i.e. the Financial Bid and the Technical Bid addressed to the Registrar, Dibrugarh University, Dibrugarh. Mention the tender equipment quoted in specifications on the left top side & address of the tenderer on the left lower corner of the envelope.
2. The "Technical bid" envelope should contain duly filled tender document, bank draft for Earnest Money, clearance certificate of Commercial tax, Technical specification of Equipments, pamphlet/company, signed copies of general terms & conditions of the tender etc. Price of equipment along with relevant details pertaining to the financial aspect of the bid should be provided in a sealed separate envelope marked "Financial Bid "
3. The rate/unit, under any circumstances shall not be altered and shall be entered in words as well as in figures. If there is any overwriting on the quotation, it shall be counter signed by the bidder.
4. The tender will remain valid for acceptance in the financial year for which it has been invited. Conditional Quotation will not be entertained. No quotation will be entertained after the due date and time. The Registrar, Dibrugarh University reserve the right to postpone, accept or reject the tenders in full or in part of this notice without assigning any reason.
5. Quotations would be given by those firms/dealers who are either registered approved suppliers/contractors for those articles/goods /equipments etc. or by those who are dealing actually in the goods for which tender is being given. Bidder shall attach letter of registration / dealership & names of agencies to whom supplies have been made earlier.
6. The approved supplier/ contractor shall be deemed to have carefully examined the condition/specification, sizes, make etc. of the goods to be supplied. If there is any doubt about the meaning of any portion of these conditions, proper clarification may be sought from the Registrar, Dibrugarh University before submitting the quotation.
7. The bidder shall not assign or subject his contract or any part there of any other agency.
8. The bidder shall be responsible for the proper packing of the goods so as to avoid damages under normal conditions of transport by sea, rail, road or air and for delivery of the material in good conditions to the consignee at destination. In the event of any loss, damage, breakage, leakage or any shortage, found at the time of checking/inspection of

the materials by the consignee, the bidder shall be liable to make good of such loss. No extra cost on such account shall be admissible to him.

9. All rates quoted in the tender must be based on free delivery in good condition, securely packed and F.O.R. destination being Dibrugarh University, Dibrugarh. The rates of the various units of the Equipment shall be quoted separately & taxes and other charges as applicable to be shown separately. The delivery of goods has to be made during working hours of the University, or as directed.
10. The bidder whose quotation is accepted shall arrange to supply the equipments within stipulated period of time as mentioned in tender notice.
11. If the supplier fails to supply the ordered Equipments in the stipulated time period the supplier may request for extension of the delivery period.
12. After expiry of delivery period as mentioned in clause 10 above, if requested by bidder the delivery period can be extended after examining the merits of the case and a penalty on extension @ 0.50% per week shall be imposed. If the supply is not completed in the extended period than the order shall be cancelled and the security money deposited shall be forfeited and the firm so concerned shall be black listed for certain period of time. The delivery period can be extended only once for the maximum of 60 days.
13. The payment shall be made on receipt of the complete Equipment ordered and on successful installation of the same.
14. In case of imported equipment, quote the FOB and CIF value and mention all terms and conditions of supply.
15. Clearance of the goods through customs shall be arranged by the supplier. This University is registered with the Department of Scientific and Industrial Research (DSIR) for the purpose of availing Customs Duty and Central Excise Duty exemption. The University shall provide the certificate for the purpose of Customs Clearance.
16. The quotation shall be filled in with ink or shall be typed. Quotation filled in by pencil shall not be considered. No addition, overwriting and alterations shall be made in the quotation. Corrections, if any, shall be done clearly and counter signed by the bidder.
17. The bidder shall sign all pages of tender document and of the general terms and conditions at the bottom of each page, in token of the acceptance of all the terms and conditions of the tender.
18. The tender shall be accompanied by a bank draft of Earnest Money amount or Bank Guarantee as specified in the Tender Notice, in favor of the Registrar, Dibrugarh University, Dibrugarh. The earnest money instrument shall remain with the office of the

Registrar, Dibrugarh University till the final decision on the tenders. After the final decision of the tenders the earnest money of unsuccessful tenders shall be refunded.

19. The successful bidder shall have to execute an agreement on a non-judicial stamp of Rs.100/- or of such value as may be prescribed by the law on the subject for contract deeds in the prescribed form, within 7 days from the date of information of the acceptance of the tender for the due execution of the agreement. In case of failure of the execution of agreement within the specified period, the purchase order is liable to be cancelled. The expenses for preparation of agreement paper shall be borne by the supplier who shall furnish one copy of the agreement duly executed and stamped to the Registrar, Dibrugarh University.
20. The successful bidder shall have to give an undertaking from the manufacturing (principal) company on their letter head that it will ensure service and supply of spare parts of the supplied instruments, as and when required for a period of five years, for smooth and uninterrupted functioning of instruments.
21. The successful bidder shall have to deposit 10 % of the cost of the Equipments/Instruments as security amount in the form of fixed deposit in favour of the Registrar, Dibrugarh University. This amount shall be retained for 18 months after the installation of the instruments/equipments. After the receipt of security amount the earnest money of the successful bidder shall be returned without interest.
22. If the bidder is unable to complete the supply or fails to comply with the terms and conditions of the tender within the specified or extended period, the Registrar, Dibrugarh University shall be at liberty to retender and may use the earnest money/security deposit to make good any consequential losses.
23. The goods shall be delivered at the destination in perfect condition. The supplier, if desires so, may insure the goods against loss by the theft, destruction or damage by fire, flood, under exposure to weather or otherwise.
24. Payments shall be made by the Registrar, Dibrugarh University, on behalf of the University, only when the goods have been delivered, inspected, accepted and installed. Inspection Committee appointed by Registrar, Dibrugarh University shall issue a certificate to that effect. In case of dispute 10 to 25% of the amount shall be withheld and shall be paid on settlement of the dispute.
25. Upon breach of any of the General terms and conditions of contract and breach of trust of the agreement by the supplier it shall be lawful for purchaser to forfeit the earnest Money/Security Deposit in whole or part or impose such penalty as the Registrar may deem fit and recover the same from the Security Deposit or from any other payment to be made to the supplier.

26. Direct or indirect canvassing on the part to bidder or their representatives shall disqualify their quotations.
27. The Registrar, Dibrugarh University reserves the right to accept any tender not necessarily the lowest tenders and reject any quotation without assigning any reasons thereof.
28. Bidder shall have to submit a sale Tax Clearance Certificate from the concerned assessing authority along with the tender without which the tender shall not be considered.
29. In case of any dispute, the matter may be settled amicably or else to be settled in Court at Dibrugarh only.
30. No other terms and conditions except those mentioned above will be entertained in the quotation. It shall not be binding on the University to accept the terms and condition of the bidder.
31. The supplier should attach the receipt of having paid the sales tax on the material / instruments along with the bill and challan sent to the Registrar, Dibrugarh University.

SEAL AND SIGNATURE OF
PROPRIETOR/MANAGER REPRESENTATIVE OF
THE FIRM ON BEHALF OF THE FIRM GIVING TENDER

OFFICE OF THE REGISTRAR : DIBRUGARH UNIVERSITY : DIBRUGARH

TENDER FORM

(TO BE FILLED UP BY THE TENDERER)

No. DU/RG/B.01.07/17/ 2366 Date: 01 .12.2017

1. NAME & FULL ADDRESS OF THE FIRM :

2. ADDRESS OF THE REGISTERED OFFICE :

3. INCOME TAX PAN NO. :

4. (A) SALES TAX REGISTRATION NO. :
(B) YEAR OF CLEARANCE CERTIFICATE :
(Attach Certificate)
5. WHETHER PVT. FIRM/LIMITED COMPANY/ :
PRIVATE LTD / PARTNERSHIP

6. IF SINGLE PROPRIETOR, NAME & :
ADDRESS OF THE PROPRIETOR

7. IF PARTNERSHIP FIRM, NAME & :
ADDRESSES OF THE PARTNERS

8. WHETHER YOU HAVE ANY SHOP OR :
ESTABLISHMENT IN INDIA, IF SO
DETAIL ADDRESS OF THE SAME

9. NAME & ADDRESS OF THE PERSON WHO :
WILL REPRESENT THE FIRM WHILE DEALING
WITH DIBRUGARH UNIVERSITY

SIGNATURE OF THE TENDERER WITH SEAL

CHECK LIST OF DOCUMENTS ENCLOSED

S. NO.	CERTIFICATE	YES/NO
1	<p>Technical bid envelope-I- Should contain following-</p> <ul style="list-style-type: none"> -Last three years turn over & firms A/C details certified by CA -Sales Tax clearance certificate and Firm ale Registration No. -Proof of SSI / NSI & DGS & D unit (Whichever is applicable) -Firm Registration Certificate -Warranty/ Guaranty - Specify -Sample (Brochures/Technical details of the items tendered) -E.M.D. : - Bank Drafts, in favour of the Registrar, Dibrugarh University, Dibrugarh, Assam. 	
2.	<p>Financial bid envelope-2- should contain following-</p> <ul style="list-style-type: none"> -Financial aspect of the bid, tax applicable should be shown separately 	

OFFICE OF THE REGISTRAR : DIBRUGARH UNIVERSITY : DIBRUGARH

**No. DU/RG/B.01.07/17/ 2366 Date: 01.12.2017
TENDER FORM - "1" (TECHNICAL BID)**

- (i) Subject: Tender for Equipment against Tender No.
for
- (ii) Name and Full Address of the firm submitting the quotation
- (iii) Address to: The Registrar, Dibrugarh University, Dibrugarh-786004
- (iv) Tender fee amounting Rs. 1000/- has been deposited vide Demand Draft No.
dtd.....Bank..... in favour of the Registrar, Dibrugarh
University, Dibrugarh-786004.
- (v) We agree to abide by all the terms & conditions mentioned in the Tender Notice, General
Information, Important Note and General Terms & Conditions of Tender and Contract with
Tender Notice No..... Dated
- (vi) Tender form and all the attached sheets of terms & conditions have been signed by us,
as a token of acceptance of the terms and conditions there in.
- (vii) Our specifications for the supply of are as under:
(Mention name of Item)
(Mention specifications in the above space and also quote Equipments on letter head
of firm along-with detail specifications and attach pamphlet and literature of quoted
Equipment).
- (viii) Draft No..... Date Rs..... (In words)
.....
Bank in favour of the Registrar, Dibrugarh
University, Dibrugarh-786004 against earnest money as mentioned in the advertisement,
is enclosed herewith.

SEAL AND SIGNATURE OF PROPRIETOR/
MANAGER / REPRESENTATIVE OF THE FIRM
ON BEHALF OF THE FIRM GIVING TENDER

Note: Please ensure

1. The name of Tendering firm is written on the overleaf of Bank Draft of EMD.
2. Enclose hard copy & CD of Tendered Specification.

OFFICE OF THE REGISTRAR : DIBRUGARH UNIVERSITY : DIBRUGARH

No. DU/RG/B.01.07/17/2366

Date: 01.12.2017

TENDER FORM -"2" (FINANCIAL BID)

- (i) Subject: Tender for Equipment/Equipments :
- (ii) Name and full Address of the firm :
submitting the tender
- (iii) Address to : The Registrar, Dibrugarh University, Dibrugarh-786004.
- (iv) Reference: TENDER Notice No. : Dated
- (v) Our rates supply of are as under:
(Mention name of Equipment)
(Mention rates in the above space and also quote Equipment on letter head of firm
along-with detail specifications and attach pamphlet and literature of quoted Equipment).
- (vi) We further agree to deliver mentioned University within a period ofdays
from the date of the receipt of supply order.
- (vii) We confirm the rates quoted above are valid up to

SEAL AND SIGNATURE OF
PROPRIETOR/MANAGER/
REPRESENTATIVE OF THE FIRM ON
BEHALF OF THE FIRM GIVING
TENDER

Note: Please ensure

1. Letter head containing specification of the equipment is also attached with this form & the envelope has been super-scribed "Technical Bid for"
2. The name of Tendering firm is written on the overleaf of Bank Draft of EMD
3. The cost or equipment and taxes should be shown separately.

Technical Specification for 500 MHz FT-NMR Spectrometer

Quotations are invited from the reputed vendor / manufacturer for the supply and installation of 500 MHz FT-NMR Spectrometer for applications related to small molecule analysis, natural products, heteronuclear NMR, metabolites and proteomics along with descriptive catalogue / brochure / published literature (as proof of specs) of the following specifications for Dibrugarh University, Dibrugarh – 786004, Assam.

1. Magnet and Operating Frequency:

1. Latest technology based stable and actively shielded superconducting magnet with an operational frequency of 500 MHz (11.74 T) for ^1H nucleus.
2. Liquid helium hold time: 150 days or more with auto level monitoring and recording.
3. Liquid Helium and Liquid Nitrogen transfer lines. (Two sets of liquid nitrogen line with extra cork should be provided)
4. Liquid Helium and Liquid Nitrogen level indicator and alarm.
5. Liquid Helium Boil off rate should be quoted in exact manner.
6. Anti-vibration Platform/Stand (mention the lower limit of the damping frequency vibration)

2. Electronics and Console:

1. Electronic console (~ 220 V) with two broadband channels RF systems for ^1H , ^{13}C , ^{15}N , ^{31}P , ^{19}F and other active nuclei such as ^{183}W , ^{103}Rh , ^{195}Pt , ^{77}Se , etc. and mention the frequency scale of operation along with configuration and band width of each channel.
2. Automatic high performance gradient shimming for 1D and 2D along with lock, spin and insert / eject.
3. Deuterium lock channel with high precision phase and field correction.
4. High performance power transmitter for 2-channel (with provisions for one more in future) Receiver System with high dynamic range and minimal quadrature images and artefacts.
5. Appropriate amplifiers / preamplifiers for each channel for observation or decoupling of ^1H or ^{19}F (at least 100 W) and in the range of ^{31}P to ^{15}N (at least 300 W)/ ^{109}Ag for routine ^1H detected HSQC/HMBC experiments also.
6. Variable temperature unit with all components for both high (+150°C or higher) and low (-100°C or lower) temperature.
7. Cooling device for sample for low temperature experiments.
8. Automatic Tuning and matching for nuclei under study for liquid samples.

3. Probes:

1. Multinuclear Z-gradient based broad band probe (5mm) with automatic tuning and matching facility for observations of ^1H nuclei with ^{19}F decoupling or ^{19}F observe with ^1H decoupling and for observation of nuclei in the range of ^{31}P to ^{15}N etc. with ^1H decoupling/observe.
2. Probes should be compatible to variable temperature experiments ($\leq -100^\circ\text{C}$ to $\geq +150^\circ\text{C}$) with suitable attachment.
3. Automated Frequency switching and sensing for multi-nuclei operation. The probe has to perform ^1H , ^{13}C , ^{15}N , ^{31}P , ^{19}F related 1D and 2D NMR experiments.
4. A separate Nitrogen based Cryo probe with ATM and operational temperature range from -40°C to 150°C with observable nuclei such as ^{13}C , ^{15}N , ^{31}P , ^{29}Si and ^1H with filed gradient capability.
5. Provide printed technical specifications for the probe heads eg. Sensitivity, resolution and line shape with NMR Tube inner diameter and sample volume etc.
6. The probe should allow ^1H NMR measurements with highest solvents suppression. Any accessories / software required to conduct above experiments are to be mentioned and included.
7. **Preferred sensitivity:** For ^1H in 0.1% Ethylbenzene of 700 or more, ^{13}C in 10% ethylbenzene in chloroform-d with 300 or more, ^{19}F with 500 or more, ^{31}P with 135 or more, ^{15}N with 35 or more on standard test.

4. Hardware and Software:

1. One 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 etc.). One work station should be equipped with Linux/Windows based software for data collection and processing.
2. LCD monitor (24 inch), Laser Printer.
3. NMR software for acquisition and processing including pulse sequence program.
4. All required documents, manuals, installation CDs/DVDs etc. both for hardware and software.
5. Special software like molecular structure determination, Dynamic Centre etc.
6. Unlimited user licenses of NMR software for data processing.
7. Data processing software should be compatible with Windows, Linux and Mac operating system on any PC or Laptop.
8. One additional workstation (i7, 1TB HDD, 8GB RAM and latest genuine Windows OS and Microsoft Office Software)

5. Accessorise and Miscellaneous Items:

1. One suitable ISO-9001 certified online UPS (5 KVA) with branded ultra-shield batteries for the whole system with a minimum backup of 2 hour.
2. An ISO-9001 certified imported/indigenous oil-free scroll air-compressor complete with dryer with proper ratings and specification capable of catering all the needs.
3. Initial supply of liquid helium and liquid nitrogen for installation. The vendor must also to top up the liquid helium level to 100% level after the magnet charging.
4. Three numbers of Cryocans (50 to 55 litres capacity)
5. 1000 numbers of NMR sample tubes with caps for analysis on 500 MHz NMR and 04 (four) sample gauge.
6. NMR solvents*: (i) DMSO-d₆ (ampule 0.6 ml x 500 ml); (ii) D₂O (500 ampules); (iii) CDCl₃ (100 ml x 10); (iv) CDCl₃ (100 ml x 3 or 500 ampules); CD₃OD (0.6 x 500 ampule); CD₃OCD₃ (ampule 0.6 ml x 500 ml)

* All solvents have TMS as internal standard.

6. Optional Items:

1. Solid state CP-MASS Probe 3.2 mm rotor with fast MAS ≥ 20 KHz spinning speed to cover nuclei in the range of ¹⁵N to ³¹P, frequency range 60 MHz to 242.9 MHz (X Channel)
2. Automatic sample changer for 24 samples or better with two number of Spinner suitable for high temperature operation. (suitable number of rotors should be quoted)
3. Trolleys for transporting 50 litre Cryo Cans.
4. An additional probe with specifications as mentioned in 3 (Probe)

7. Warranty:

1. Comprehensive on-site warranty for **5 (five) years** and should cover all hardware / software and consumables including Liquid Helium filling.
2. Annual Maintenance Contract (AMC) including refilling of liquid helium to be quoted for **6th year to 7th year. (2 years)**
3. Regular up-gradation to all software during the entire warranty period.
4. Bidder should provide a certificate that they will provide the spares in future at least for **10 (ten) years.**
5. Bidder must provide an undertaking that any service request will be addressed within seven working days. Any delay beyond seven days must be compensated by extending the warranty period with equivalent number of days.
6. Bidder should provide insurance up to the delivery point (on-site not up to the nearer international airport) and until the time of installation.

8. Training:

1. After successful installation vendor must depute an operator for one year.
2. Application specialists must train the user at least 2 weeks.

NOTE:

- (i) The technical specifications should be quoted in the same manner as described in the Technical Specifications in the tender. A compatible report should be attached in this regard.
- (ii) The vendor should provide the list of total number of 500 MHZ NMR instruments installed in India.
- (iii) Standard test samples for multinuclear / multi-experiment studies.
- (iv) The vendor should have established service based in Eastern region. All contact details, including e-mail and phone numbers of the respective officers and personnel should be provided.
- (v) A comprehensive warranty of 5 years from the date of installation.
- (vi) CMC will be calculated on the basis of onsite response. Any time leg will extend the duration of AMC equally.

SEAL AND SIGNATURE OF
PROPRIETOR/MANAGER/ REPRESENTATIVE OF
THE FLRM ON BEHALF OF THE FIRM GIVING TENDER