Tender has been Published Successfully in this portal. Tender ID: 2019_JFPT_528083_1
NOTICE INVITING TENDER THROUGH E-PROCUREMENT

Online Bids are invited from the interested firms under Two Bid System for procurement of “500 MHz NMR Spectrometer” at Institute of Pesticide Formulation Technology, Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana). Manual bids shall not be entertained.

Tender documents may be downloaded from e-Procurement website of CPP https://eprocure.gov.in/eprocure/app as per the schedule as given in CRITICAL DATE SHEET as under:

<table>
<thead>
<tr>
<th>CRITICAL DATE SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tender No.</td>
</tr>
<tr>
<td>Date &amp; Time for Issue/Publishing</td>
</tr>
<tr>
<td>Document Download/Sale Start Date &amp; Time</td>
</tr>
<tr>
<td>Bid Submission Start Date &amp; Time</td>
</tr>
<tr>
<td>Bid Submission End Date &amp; Time</td>
</tr>
<tr>
<td>Date &amp; Time for Opening of Bids</td>
</tr>
</tbody>
</table>

Address for Communication

Director
Institute of Pesticide Formulation Technology
Department of Chemicals & Petrochemicals,
Ministry of Chemicals & Fertilizers, Sector-20,
Udyog Vihar, Gurugram – 122 016 (Haryana)
INSTRUCTIONS FOR ONLINE BID SUBMISSION

1. The tender from/bidder documents may be downloaded from the website: https://eprocure.gov.in/eprocure/app. Online submission of Bids through Central Public Procurement Portal (https://eprocure.gov.in/eprocure/app) is mandatory. Manual/Offline bids shall not be accepted under any circumstances.

2. Tenders/bidders are requested to visit website https://eprocure.gov.in/eprocure/app regularly. Any changes/modifications in tender enquiry will be intimated by corrigendum through this website only.

3. In case, any holiday is declared by the Government on the day of opening, the tenders will be opened on the next working day at the same time. The Director-IPFT reserves the right to accept or reject any or all the tenders.

4. The interested Firms are required to deposit (in original) and Earnest Money Deposit (EMD) of the amount mentioned against item in the form of Demand Draft/Bank Guarantee from any of the Commercial Bank in favour of “Institute of Pesticide Formulation Technology” payable at Gurugram may be addressed to the Director, Institute of Pesticide Formulation Technology (IPFT), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana) on or before bid opening date and time as mentioned in the Critical Date Sheet.

5. The firm should send the Original brochures of the product and may be addressed to the Director, Institute of Pesticide Formulation Technology (IPFT), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana) on or before bid opening date and time as mentioned in the Critical Date Sheet.

6. Bidder need not to come at the time of Technical as well as Financial bid opening at IPFT-Gurugram. They can view live bid opening after login on CPP eProcurement Portal at their remote end. If bidder wants to join bid opening event at IPFT-Gurugram then they have to come with bid acknowledge slip that generates after successfully submission of online bid.

The Firms are also required to upload copies of the following documents:

- **TECHNICAL**:
  
  (a) Scanned Copy of Earnest Money Deposit (EMD)/its exemption, if any.
  
  (b) Scanned Copy of Firm’s registration, PAN Card, GST No., Tender Acceptance Letter (Annexure-V).
  
  (c) Scanned Copy of Manufacturers Authorization Certificate issued by Principal Manufacturer duly verified by the Indian Agent or Manufacturing Certificate.
  
  (d) Scanned Copy of Income Tax Statement for the last three years.
  
  (e) Scanned Copy of Annexure – II and IV.
  
  (f) Scanned Copy of all authentic documents regarding firm’s average turnover of ₹ 12.00 Crores per year during last three year.
  
  (g) Scanned Copy of Make and Model of all systems, sub systems and additional items should be mentioned in the technical bid and complete technical details should be provided in the form of Brochures and write-ups.

- **FINANCIAL BID**:
  
  (a) Price Bid as BoQ_XXXX.xls
1. The tender shall quote rates, which will include the delivery and other incidental charges, Taxes, if any, should be indicated separately.

2. The rates should be quoted as per the BOQ uploaded on the CPP Portal (reference may be obtained from Annexure -III). Taxes, if any, should be indicated separately. If must be noted that the contract shall be awarded to the firm which fulfils all the required terms and conditions and remains L-1 for any particular items.

3. The firm must also possess valid PAN No., TIN No. & GST Registration Number and a copy of the same must also be enclosed with the tender document.

4. Copy of previous three years of Income Tax Statement may be furnished.

5. The firm should be in existence for over 05 (Five) years in the trade with the average business turnover of not less than ₹ 12.00 Crores per annum during the last three years. Documents to this effect may be enclosed.

6. As per Rule 173 of GFR-2017, “The condition of prior turnover and prior experience may be relaxed for Startups (as defined by Department of Industrial Policy and Promotion) subject to meeting of quality & technical specifications”.

7. Modification in the tender documents after the closing date is not permissible.

8. The successful firm shall have to supply the “500 MHz NMR Spectrometer” within 6 weeks from the date of confirmed supply order and if the materials are not supplied in time then EMD shall be forfeited. The rates quoted shall be valid for one year from the date of opening of tender.

9. The contractor/bidder or his representative may contact the undersigned at Telephone No. 0124-2341844 for any further clarification. No variation in terms of quality of the items shall be entertained or else EMD/Security deposit shall be forfeited.

10. The Director, Institute of Pesticide Formulation Technology (IPFT), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana) shall have the right to reject all or any of the offers, accept more than one offer, and assign part of the job.

11. Merely quoting of lowest rates does not mean that order shall be given to that firm. The Competent Authority will finally decide on the basis of quality and performance of past installations.

12. The interested firms are required to deposit (in original) an Earnest Money Deposit (EMD) of the amount mentioned against each item in the form of Demand Draft/Bank Guarantee from any of the Commercial Bank in favour of “Institute of Pesticide Formulation Technology” payable at Gurugram may be addressed to the Director, Institute of Pesticide Formulation Technology (IPFT), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana). No tender shall be considered without the Earnest Money Deposit. The Earnest Money will be refunded only after the finalization of the procurement and no interest will be paid on Earnest Money.
13. Rates once finalized will not be enhanced/reduced during the currency of the contract.

14. In case of foreign currency, conversion rates in INR will be taken on that day when financial bid will open.

15. In case, the successful bidder shows inability at any stage, after the contract is finalized and awarded, for whatsoever reason(s), to honour the contract, the Earnest Money/Performance Security deposited would be forfeited.

16. The Director-IPFT, Gurugram reserves the right to cancel the contract at any time during the currency period of the contract without giving any reason.

17. The firm to whom the tender will be awarded, will have to deposit the Performance Security equal to 10% of the total amount at the time of installation of the Equipment. If the services are not found to be satisfactory, the Performance Security is liable to be forfeited. No interest will be paid on Performance Security.

18. If any disputes(s) arises between IPFT-Gurugram and the firm with reference to the contract, IPFT-Gurugram will decide it and its decision will be binding on the firm.


20. The contract will be given to item-wise Least one (L-1).

21. Our Institute is Registered with DSIR and we are exempted from Excise Duty & Custom Duty. Hence, DSIR Certificate valid upto 31.03.2021 will be provided to the firm, if demanded. Rate should be quoted accordingly.

22. PAYMENT :-

   (A) Payment for Goods supplied from abroad :

   (a) On shipment 90% of the contract price (FOB) shall be paid through Irrevocable Letter of Credit upon submission of documents detailed in L/C.

   (b) 10% of the contract price (FOB) (in foreign currency) and other charges like freight etc., from FOB to FOR IPFT-Gurugram, Haryana (in INR) will be released after satisfactory installation / working of equipment / machine etc. As well as on submission/production of Performance Bank Guarantee by the Supplier(s).

   (B) Payment of Goods Supplied within India :

   (a) 100% of the contract price on receipt of goods by the consignee supported by satisfactory installation/working report and submission of PBG.

23. INSTALLATION :-

Within 30 days from the date of receipt of equipment in the Institute failing which Liquidated Damage clause shall apply.

Liquidated Damage Clause : It would be realized @ 0.5% (half per cent) of the base price (excluding taxes) of the delayed goods for each week of delay subject to maximum 10%.
PRICES :

I. If any bidder wants to quote in foreign currency, price be quoted on FOB International Port of shipment in foreign currency and all charges from FOB International Port to FOR, IPFT-Gurugram (like; air/sea freight, insurance, custom duty against CDEC, Custom Clearing charges and transportation up to IPFT-Gurugram) should be quoted in INR only.

II. If any bidder wants to quote in INR, Price be quoted on FOR, IPFT-Gurugram basis.

III. IN CASE THE STORES PERTAINS TO IMPORT :

(a) KINDLY ENSURE TO ENCLOSE MANUFACTURER’S AUTHORISATION IN FAVOUR OF INDIAN SUBSIDIARY FIRM. IT MAY ALSO BE NOTED THAT FURTHER AUTHORITY BY SUBSIDIARY FIRM IN FAVOUR OF ANY OTHER FIRM LOCATED IN INDIA TO PROMOTE THEIR SALE MUST HAVE AUTHORIZATION FROM THE PRINCIPAL FIRM FOR FURTHER AUTHORIZATION TO AN INDIAN FIRM. FAILING WHICH THE TENDER IS LIABLE TO BE CANCELLED.

(b) PRICE SHOULD BE QUOTED ON FOR INTERNATIONAL AIRPORT/SEAPORT AND CIF NEW DELHI ALSO. IN CASE ANY FIRM QUOTES THE RATE ON FCA OR EX-WORKS BASIS ONLY, FCA OR EX-WORKS PRICE WILL BE TREATED AS FOR INTERNATIONAL AIRPORT/SEAPORT.

(c) PRICE CAN ALSO BE QUOTED IN INR (FOR BASIS), BUT IN THAT CASE EITHER CDEC/DSIR OR GST CAN BE DEMANDED. DEMAND FOR BOTH GST AND CDEC/DSIR CAN NOT BE CONSIDERED.

(d) PRICE SHOULD BE QUOTED FROM FOB TO FOR DESTINATION (IPFT-GURUGRAM) IN INDIAN CURRENCY (INR) ALSO.

"Terms and Conditions are acceptable"

Dated:

(Authorized Signatory of the Firm)
ANNEXURE-III

(Reference for BOQ) (To be quoted in format provided on CPP Portal)

Price Bids for "500 MHz NMR Spectrometer" at Institute of Pesticide Formulation Technology (IPFT), Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Sector-20, Udyog Vihar, Gurugram – 122 016 (Haryana):

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of the Item</th>
<th>Quantity</th>
<th>Per unit price* (in figure/words) as per BOQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>500 MHz NMR Spectrometer</td>
<td>01 No.</td>
<td></td>
</tr>
</tbody>
</table>

* Item should be of reputed make and suitable for high end elite users.

* Tax extra as applicable should be indicated separately in the column provided.

Note: The above mentioned Financial Proposal/Commercial Bid format is provide as BoQ_XXXX.xls along with this tender document at https://eprocure.gov.in/eprocure/app. Bidders are advised to download this BoQ_XXXX.xls as it is and quote their offer/rates in the permitted column and upload the same in the Financial Bid. **Bidder shall not tamper/modify downloaded price bid template in any manner.** In case if the same is found to be tempered / modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with IPFT-Gurugram.
Name of the Firm:

Registered / Postal Address:

<table>
<thead>
<tr>
<th>1. Permanent Account Number (PAN) No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. GST Registration No. if applicable</td>
</tr>
</tbody>
</table>

3. BANK DETAILS:

   a. Bank Name
   b. Branch Address
   c. Account No.
   d. Type of Account (Current/Savings)
   e. MICR No.
   f. RTGS/NEFT Code
   g. AADHAR No.
   h. E-mail ID

Date:

Name of the Authorized Signatory

Place:

Stamp & Signature
TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of terms and conditions of tender.

Tender Reference No. :
Name of Tender/Work :

Dear Sir,

1. I/we have downloaded / obtained the tender documents(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

As per your advertisement, given in the above mentioned website(s).

2. I/we hereby certify that I/we have read the entire terms and conditions of the tender documents from Page No. 1 to 1 (including all documents like annexure(s), schedules(s), etc.,) which form part of the contract agreement and I/we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department / organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I/we hereby unconditionally accept the tender conditions of above mentioned tender document(s)/corrigendum(s) in its totality / entirety.

5. I/we do hereby declare that our Firm has not been blacklisted / debarred by any Govt. Department/Public Sector Undertaking.

6. I/we certify that all information furnished by the our Firm is true and correct and in the event the information is found to be incorrect/untrue or found violated, then your department/organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours faithfully,

(Signature of the Bidder, with Official Seal)
ANNEXURE-VI

INSTRUCTION FOR ONLINE BID SUBMISSION

The bidders are requested to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: https://eprocure.gov.in/eprocure/app.

REGISTRATION:

- Bidders are required to enrol on the e-Procurement module of the Central Public Procurement Portal (URL: https://eprocure.gov.in/eprocure/app) by clicking on the link “Online Bidder Enrolment” on the CPP Portal, which is free of charge.

- As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.

- Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.

- Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority Recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.

- Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.

- Bidder then logs into the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS:

- There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, other keywords etc. To search for a tender published on the CPP Portal.

- Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders” folder. This would enable the CPP Portal to intimate the bidders through SMS / E-mail in case there is any corrigendum issued to the tender document.

- The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.
PREPARATION OF BIDS:

- Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents – including the names and content of each of the document that need to be submitted. Any deviation from these may lead to rejection of the bid.

- Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF / JPG formats. Bids documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

- To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN Card Copy, Annual Reports, Auditor Certificates etc.) has been provided to the bidders. Bidders can use “My Space” or Other Important Documents” area available to them to upload such documents. These documents may be directly submitted from the “My Space” area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS:

- Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

- Bidder has to select the payment option as “Offline” to pay the EMD as applicable and enter details of the instrument.

- Bidder should prepare the EMD as per the instructions specified in the tender document. The Original should be posted / couriered / given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD / any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.

- Bidders are requested to note that they should necessary submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changes. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
• The server time (which is displayed on the bidder’s dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.

• All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Sockets Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers’ public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorised bid openers.

• The uploaded tender documents become readable only after the tender opening by the authorized bid openers.

• Upon the successful and timely submission of bids (i.e. after clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

• The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

**ASSISTANCE TO BIDDERS:**

• Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.

• Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.

********
<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Purchase of Item</th>
<th>Qty</th>
<th>Earnest Money in INR</th>
<th>File No. for Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>500 MHz NMR Spectrometer</td>
<td>01</td>
<td>6,00,000.00</td>
<td>IPFT/GIA(CCA)/2019-20/TE-01</td>
</tr>
</tbody>
</table>
## SPECIFICATION FOR EQUIPMENT

**Items No. 1 : 500 MHz NMR Spectrometer**  
**Tentative Quantity : One**

**Equipment: 500 MHZ NMR SPECTROMETER**

Supply, Installation and commissioning of 500 MHz FT-NMR Spectrometer

| 1. Magnet and Container |  
|-------------------------|---|
|                         | ▶ Latest technology shielded magnet 11.74 Tesla with 54 mm bore superconducting magnet for 500 MHz |
|                         | ▶ Anti-vibration platform to damp the frequencies above 5 Hz to get neat spectra should be quoted as part of the system. |
|                         | ▶ Helium hold time should be at least 150 days or more with auto level monitoring and recording. |
|                         | ▶ Liquid nitrogen hold-time for at least 15 days. |
|                         | ▶ One set of Liquid Nitrogen Line with Cork should be provided |
|                         | ▶ At least 44 Room Temperature shims for excellent line-shape |

| 2. Electronics and Console |  
|---------------------------|---|
|                          | ▶ Radiofrequency (RF) Generator: Two independent channels to handle nuclei such as \(^1\)H, \(^13\)C, \(^15\)N, \(^19\)F, \(^31\)P, etc. capable of performing multidimensional NMR experiments. High performance power transmitters with high band (\(^1\)H/\(^19\)F) amplifier (100 watts) and a low (or Broad) band (X) amplifier (300 watts or more). |
|                          | ▶ Gradient experiments such as Pulsed Field Gradient experiments with higher gradient strength. Faster shimming should be the capability of the machine. Frequency generation, digital receiver controls with over sampling and digital filters should be quoted appropriately. |
|                          | ▶ Provisions for setting frequencies and field to lock and Digital-Auto Lock providing higher stability. System should achieve locking of the sample with different combination of solvents in a short duration without manual interference. |
3. Probes

- Auto shimming feature for solution. Gradient unit for Auto shimming to achieve good line shape of sample and to perform all new gradient pulse program based experiment with capability to run DOSY and other gradient experiments having capacity of 30 G/cm or better with 10 Amp external gradient.

- Automatic Tuning and Matching for the nuclei under study for liquid samples.

- Variable temperature experiments to be done in the range +100°C to -80°C with ± 0.1°C variations or more comprehensive range should be provided. Controller should be able to sustain temperature stability for both high and low ranges up to a longer period of time. Accessories and consumables if any required for the variable temperature control should be quoted appropriately.

- High bandwidth receiver system with digital quadrature detection

16 Bit Analog to Digital Converter or better to be quoted

- 5mm multinuclear Broad Band Direct/observe Z-gradient Probe (specify the range of nuclei supported) with automatic tuning and matching (ATM) and with inverse experiments capabilities with high S/N ratio of 1H in 0.1% Ethylbenzene of 800 or more. 13C in 10% Ethylbenzene in Chloroform-d with 310 or more, 19 F with 600 or more, 31P with 135 or more and 15 N with 35 or more on standard test samples.

4. Auto-sampler

- Fully functional auto sampler with capacity of handling at least 24 samples should be included along with 24 spinners. Sample holder should work in entire temperature range.
5. Hardware and Software Requirements

- High performance Latest computer (PC) system or workstation for controlling NMR data acquisition and processing.
- Software for multi-dimensional NMR data collection and processing for liquids samples
- NMR Software for acquisition and processing of 1D and 2D data.
- NMR software for processing the FID file in PC/Laptop.
- FID data can be accessed through the LAN connection
- High performance laser printer

6. Warranty

- Comprehensive Maintenance Warranty for five years after installation and should cover all hardware/software and consumables including Liquid helium refilling.

OR

- Comprehensive Maintenance Warranty for two years after installation and should cover all hardware/software and consumables including Liquid helium refilling. Additional Comprehensive Maintenance Warranty for three years after completion of initial two years should be quoted. Cost of the following should be quoted separately:

  (i) Comprehensive Maintenance warranty for initial two years
  (ii) Comprehensive Maintenance warranty for third year
  (iii) Comprehensive Maintenance warranty for fourth year
  (iv) Comprehensive Maintenance warranty for fifth year
7. Accessories and Miscellaneous Items

- Suitable online branded UPS (10 KVA) for 1 hour backup with branded ultra-shield maintenance free batteries
- Compressor imported oil free. Scroll free. Noise free air compressor with dryer. 3 HP. Buffer tank of 90 litres or more.
- 4 cryogenic of 50 litre or above capacity with transfer line.
- Onsite training for operation and maintenance should be given during the installation.
- 2 Spinner turbines for 3 mm NMR tubes (Qty: 300 Nos.), it should work in entire temperature range of quoted probe.
- 1000 high quality 5mm NMR tubes
- Standard set of samples for calibration.
- Cost of operator (to operate and analyze samples) for 5 years should be quoted and included in the offer.

The following technical requirements should be strictly met and necessary documentation has to be enclosed along with the main quotation.

- The spectrometer has to be optimized for the standard test/reference samples and to be successfully demonstrated at our site.
- Original copy of complete product catalogue describing all the required basic and optional items should be produced.
- Initial supply of liquid helium and liquid nitrogen for installation should be arranged by the vendor for free.
- Prices for the each item / accessory of the spectrometer should be quoted separately.
- Software upgrades should be made by the vendor as and when the new versions are released by the manufacturer / vendor at no additional cost.
- Price for the installation charges, if any, should be quoted separately.
- In case of magnet-quench during the installation or at subsequent times due to faulty design or any other technical failure, the necessary costs for recharging or replacing should be borne by the vendor.
- Insurance of equipment should be borne by the vendor before the installation.
- Vendor should submit the list of NMR customers in India.
- Technical and financial bids should be submitted separately.