

**TENDER FOR SUPPLY, INSTALLATION AND COMMISSIONING OF HIGH-RESOLUTION ELECTRON
PARAMAGNETIC RESONANCE (EPR) SPECTROMETER AT INDIAN INSTITUTE OF TECHNOLOGY DHARWAD**

NOTICE INVITING TENDER (NIT) / RFP

1.	Bid No.	IITDH/GTE/MMD/CHEM/2025-26/01	
2.	Description	TENDER FOR SUPPLY, INSTALLATION AND COMMISSIONING OF HIGH-RESOLUTION ELECTRON PARAMAGNETIC RESONANCE (EPR) SPECTROMETER AT INDIAN INSTITUTE OF TECHNOLOGY DHARWAD	
3.	Tender Category	Goods	
4.	Tender Type	Global Tender	
5.	No. of Covers	2	
6.	EMD	₹5,00,000/- to be submitted in form of PBG/DD/FDR- in favour of REGISTRAR, IIT Dharwad (Firms participating as resellers/representing an OEM/submitting Manufacturer Authorisation Form from OEM should invariably submit EMD)	
7.	Submission of Bids : ON CPP PORTAL ONLY		
8.	Cover No.	Cover Type	Description
	1	Techno-commercial	Schedule of Requirement and Compliances, EMD, MAF, Warranty Declaration, Bidders Information, Previous Supply Orders, Delivery Period etc.
	2	Financial/Price Bid	Commercial Bid
9.	Two Bid System: - The two-bid system will be followed for this tender. Note: The technical offer should not contain any price information. If the price is quoted in TECHNICAL BID, the tender will be rejected by IIT DhArwAD. Initially Technical Bids will be opened and evaluated by the committee. Commercial bids of Technically qualified bidders only will be opened later. Contract/ Purchase Order will be awarded to the lowest bidder (L₁) identified through negotiations, if any.		
10.	Form of Contract	Buy	
11.	Bid Validity (Days):	90 Days. Any offer of less than 90 days will be rejected.	
12.	Period of Work/Delivery Period (Days)	Delivery period for materials: 150 days (120 days for delivery and 30 days for installation) from date of acceptance of the LC.	
13.	Delivery Location	CIF Building, Room No. 303 or Room No.121 in A2 Buliding, IIT dhArwAD Permanent Campus, ChikkamalligawAD, dhArwAD, Karnataka, India	
14.	Pin Code	580011	
15.	Tender Inviting Authority:	Registrar, IIT dhArwAD Address: IIT dhArwAD Permanent Campus, ChikkamalligawAD, dhArwAD, Karnataka, India	

Section – I: Instructions to Bidders

1. Either OEM or its channel partner/authorised distributor/dealer may participate in the bidding process. In a scenario of participation by OEM and channel partner in the bidding process, bids of the authorized partner/dealer will be technically disqualified and EMD will be forfeited as per prevailing rules and bid of only OEM will be considered for further evaluation. The authorisation form from OEM should bid specific.

One Bid per Manufacturer: An OEM can either participate directly or can only authorise one agent to quote on their behalf. In case of submission offers by both the OEM and their authorised agent(s), both the offers are liable to be rejected

As this procurement will be governed by Integrity Pact, vendors must inevitably submit the integrity pact duly signed and sealed (attached) with the tender. Non submission of the same will lead to outright disqualification of the bid

2. Indian Institute of Technology dhArwAD invites tenders (under two bid system) on CPP portal from reputed suppliers/manufacturers OR authorized dealers for the items at Sl.No.2 of page 1 of this document and as per the Technical Specifications given in the Section IV of this document.
3. The bidder should note that the technical specifications mentioned in **Section IV** will form the core of the product. The offers must strictly be as per the specifications given. At the same time, it must be kept in mind that mere copying of our specifications in the quotation shall not make the technical bid eligible for consideration. **A bid has to be supported with original catalogue of the quoted item/s duly signed by the authorised person participating in the bid.** Non-compliance with the above conditions shall be treated as incomplete/ambiguous and the bid shall be ignored without giving an opportunity to the bidder for further clarification/negotiation etc.
4. The prospective bidders have to visit the construction site of the IIT Dharwad permanent site, on the date scheduled by the institute for this purpose if any. However, this is not mandatory requirement.
5. The bidder shall ensure that the bid submitted by him includes all accessories (as per annexures) for full execution of the contract. The bidder shall not charge extra for additional items required to meet the operational requirement at the stage of installation and commissioning.
6. Procedure for Submission of bids: **Bids shall be submitted only through CPP portal.**
7. The tenderer must submit all documents required for evaluation of technical bid and sought in the RFP as forming part of technical evaluation with signature and seal of the competent authority of the firm. **In the event of non-receipt of any of the documents or documents received without signature forming part of Technical Bid, tenderer may be disqualified from the process.** No document relating to the technical bid will be received during the Technical Bid evaluation or afterwards unless specifically called for by the Committee in the form of seeking clarifications. Further, any separate correspondence in the matter shall also not be entertained.
8. During evaluation of the Technical Bid, the committee will scrutinize the documents mentioned above and may forward any or all the documents to the concerned authorities for verification and authentication. In case of any document(s) as submitted by the tenderer is found/reported to be fake, the tenderer will be out of the tendering process and suitable legal action also be initiated against the tenderer.
9. Besides, scrutinizing the documents submitted with the Technical Bid, the tenderer may be interviewed by the Committee to assess the eligibility, capability, and suitability of the tenderer if required.
10. The above-mentioned basic eligibility conditions and additional clauses are broad guidelines for pre-qualification and the Director, IIT dhArwAD hereby reserves the right to relax/ alter/ modify/ add/delete any or all the conditions.
11. This procurement will be governed by Integrity Pact, which will be monitored by following Independent External Monitors (IEMs):

SECTION-II: PRE-QUALIFICATION CRITERIA

Only those bidders fulfilling the following Pre-Qualification Criteria (supported by documents) are expected to participate in the Tender **(all criteria to be mandatorily fulfilled for technical qualification):-**

S. No.	Eligibility Criteria	Document required
1.	Proof of establishment of the company/business for a period of not less than 3 years.	The Bidder must be either the Original Equipment Manufacturer (OEM) or an authorized partner/dealer engaged in the business of supplying, installing, and commissioning the specified equipment—of equal or higher specifications—for a period of no less than three years prior to the bid submission deadline If the Bidder is an authorized partner/dealer, then a bid specific Manufacturer's Authorization Form (MAF) must be submitted along with the bid failing which the bid will be rejected outrightly
2.	Previous experience & copy of performance certificates along with Purchase Orders	The Bidder or its Original Equipment Manufacturer (OEM), either directly or through authorized reseller(s), must have successfully completed three such contracts in last five financial years involving the supply, installation, and commissioning of the specified equipment preceding the bid opening date. These contracts should have been executed for one or more of the following entities: <ul style="list-style-type: none"> • Indian Institutes of Technology (IITs) • National Institutes of Technology (NITs) • Indian Institutes of Science Education and Research (IISERs) • Indian Institute of Science (IISc) • Defence Public Sector Undertakings (DPSUs) • Central or State Government Organizations • Public Sector Undertakings (PSUs) • Other Organisations of repute (At least two units of the offered version/model/equipment or equivalent configuration of the quoted product must have been successfully operational for a minimum of two years prior to the date of bid opening.) Documentary evidence, such as copies of purchase orders and corresponding completion or commissioning certificates, must be submitted to substantiate compliance with this requirement.
3.	Capability- Equipment & Manufacturing Facilities	The Principal/OEM must have the annual manufacturing and supply capacity to meet at least the quantity specified in the tender. In the case of tenders involving multiple products, this requirement shall apply separately to each product.
4.	Turnover	For OEM's: Average Annual turnover in last three financial years should not be less than ₹5 Cr. For Resellers/ authorized partner/dealer: Average Annual turnover in last three financial years should not be less than ₹1.25 Cr.
5.	Net worth	The net worth of the Bidder should not be negative as on 31-Mar-2025 and also should have not eroded by more than 30% (thirty percent) in the last three years, ending on 31-Mar-2025.
6.	<u>Duly filled and completed Section-IV</u> <ul style="list-style-type: none"> • Compliance for commercial terms of tender • Compliance for technical specifications of the equipment to be supplied • Bidders information & Reasonability of prices 	The following information on the letter head of the company / bidder: <ul style="list-style-type: none"> • Compliance for commercial terms of tender • Compliance for technical specifications of the equipment to be supplied • Bidders' information & Reasonability of prices

Section - III: General Conditions of Contract

1. Evaluation of Bid:

- a) Technical bids will be evaluated for suitability as per documentary validation, eligibility criteria and technical specifications laid out in the tender document. The bids found suitable will be recommended by the committee and after approval of competent authority shall be deemed as technically qualified offers. The technically qualified bidders will be informed accordingly, and commercial bids of such offers will be evaluated on a suitable designated time and date after obtaining the approval of the competent authority.
- b) Whenever there is mismatch/deviation between the technical compliances & attached brochure/datasheet available on website, the details given in brochure/datasheet available on website shall be considered as final and accordingly the technical evaluation committee will evaluate the bids.

2. Award of Contract:

- a) Commercial bid will be evaluated by taking into consideration the total cost of all the items quoted and the total cost of comprehensive maintenance contract.
 - b) In case any BIDDER is silent on any clauses mentioned in the bid documents, IIT DhArwAD shall construe that the BIDDER has accepted the clauses of the tender and no further claim will be entertained.
 - c) No revision in the terms & conditions and specifications quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
 - d) Price Bid can be in any currency. **PRICE BID must be submitted as per enclosed BoQ.**
3. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority in compliance with Dept. of Expenditure Ministry of Finance OM No. F.No.6/18/2019-PPD dt. 23/07/2020 as amended from time to time. Necessary supporting documentation to be provided, if applicable.

4. Corrupt & Fraudulent Practices:

IIT dhArwAD requests that bidders, suppliers, contractors, and consultants, to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuit of this policy, the terms set forth below are defined as follows:

- a) "Corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, of anything in kind/value to influence the action of a public official in the procurement process or in contract execution.
- b) "Fraudulent practice" means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract.
- c) "Collusive practice" means a scheme or arrangement between two or more bidders, designed to establish bid prices at artificial, non- competitive levels; and
- d) "Coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract.
- e) IIT dhArwAD will reject a proposal for award of contract if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract in question.

5. Training and pre-installation checks:

- a) The BIDDER shall also submit training proposal for the operation and maintenance to the personnel of IIT dhArwAD on the offered equipment/machinery.
- b) Wherever needed, our technical persons should be trained by the supplier at the project site free of cost.
- c) The bidder shall mention the pre-installation requirements for the equipment like ambient temperature, humidity, civil work, weather specifications, power specifications, etc. When all items are provided, full performance should be demonstrated to IIT dhArwAD to our satisfaction.

6. **Terms of Payment: (For Import Supplies and quotes):**

- i. 100% Payment by Letter of Credit (90% payment will be released on receipt of documents such as Air Way Bill/ Bill of Lading, Certificate of Origin, Copy of Insurance, Packing List, Invoice copies in original & any other document specified by IIT dhArwAD as per LC terms without any discrepancies to the banker of the institute and balance 10% will be paid after satisfactory delivery, installation, commissioning, demonstration, training & testing). The Bill of Entry is required to be filed in the name of IIT dhArwAD. IIT dhArwAD does not pay any advance payment to party. Any request of Advance payment will be rejected summarily.
- ii. Payment of Custom Duty, IGST and all the relevant charges, if any towards custom clearance of consignment will be done by IIT Dharwad along with provision of necessary documentation support for clearance of the consignment at Customs.
- iii. A draft Letter of Credit (LoC/LC) will be shared with the successful bidder upon acceptance of Purchase order and submission of Proforma Invoice & Bank Guarantee (of 5% value of Purchase Order).
- iv. Any request for change in payment terms and conditions will not be accepted. In case, if it is necessary to change payment terms and conditions then IIT dhArwAD will not pay any additional charges. If the above payment terms conditions are not acceptable then tender may be rejected.

7. **Transfer and Subletting:**

The seller shall not sublet, transfer, assign or otherwise part with the acceptance to the tender or any part thereof, either directly or indirectly, without the prior written permission of the Purchaser.

8. **Delivery terms (only CIP, Bengaluru Airport mode of shipment acceptable):**

Items should be delivered to the specified location in the permanent campus of IIT dhArwAD, ChikkamalligawAD, dhArwAD, KarnATaka, India – 580011. The supplier should arrange for entire process from origin of equipment to the Bengaluru Airport Stores/identified site at IIT dhArwAD (including charges for safe packing, Marking & labelling, loading charges, road/air freight, insurance of goods, unloading charges, transport & unloading at buyer destination, installation, commissioning, demonstration, and training; within the quoted price).

For the purpose of easy tracking of the assets, the successful bidder is required to emboss on the products or fix/rivet metal plates punched (as per the nomenclature provided by IIT dhArwAD) on the material to be delivered at IIT dhArwAD, at no additional cost.

9. **Freight & Insurance:**

No freight and insurance charges will be provided, and the materials are to be delivered at IIT dhArwAD Permanent Campus, IIT dhArwAD at the cost and risk of the supplier/Bidder within quoted price as per the delivery terms mentioned in the above paragraphs.

10. **Warranty Condition:**

- a) The Bidder/supplier must give a **comprehensive on-site support and maintenance** for a period specified in respect of the subject item (mentioned in Section-IV(ii)(9)) from the date of commissioning and acceptance of the items.
- b) The warranty provided shall be comprehensive, means, it must include the cost of the spares, materials, manpower and any other incidental expenses thereto.
- c) Any deviation in the equipment and the specification from the accepted terms and conditions may lead to rejection and non-acceptance of stores. In such case, the bidder/manufacturer is required to supply all the items in the specified form to the satisfaction/ specifications mentioned in the order and demonstrate at their own cost. The payments shall be made only after receiving the materials as per required specification and quality to the satisfaction of the competent authority of IIT dhArwAD.
- d) **The Date of Warranty period starts from the date of satisfactory supply, installation, demonstration training and acceptance of the equipment. The Vendor is requested to provide PBG as per warranty plus 2months for the quoted product/s claiming period commencing from the date of satisfactory installation and acceptance of the equipment within 15 days of the acceptance of the purchase order.**

11. Installation & Demonstration:

- a) The supplier is required to carry out the supply, installation, demonstration & training of the subject item at the permanent campus of IIT dhArwAD at the identified site within the delivery period; otherwise, the penalty clause will be the same as per the supply of material (refer to the liquidated damages below).
- b) In case of any mishandling/damage to items and supplies during carriage from the origin of items to the installation site, the supplier has to replace it with new items/supplies immediately at his own risk and cost. Supplier will settle his claim with the insurance company as per his convenience. IIT dhArwAD will not be liable for any type of losses in any form.
- c) BIDDER shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty period and thereafter as mentioned in the contract.
- d) Installation demonstration to be arranged by the supplier within the quoted price and the same is to be done within 30 days of the arrival of the equipment at site or as informed by IIT dhArwAD.

12. Liquidated Damages:

The equipment should be delivered/dispatched to destination and ready for use not later than the scheduled delivery date specified. If the supplier/Bidder fails to deliver any or all the stores or perform the service by the specified date, liquidated damages @0.5% per week for the value of the delayed stores will be deducted from the bill subject to a maximum of 10% of the ordered value. Same terms are applicable for installation, training and demonstration clause mentioned above. Delivery date means delivery, installation/commissioning date.

13. Dispute and Jurisdiction:

Any legal disputes arising out of any breach of contract pertaining to the whole process of this tender shall be settled in the court of competent jurisdiction in the district of dhArwAD, Karnataka.

14. Cancellation of Tender:

- a) Notwithstanding anything specified in this tender document, Purchaser/IIT dhArwAD in It's sole discretion, unconditionally and without assigning any reasons, reserves the rights:
 - i. To accept or reject lowest tender or any other tender or all the tenders.
 - ii. To accept any tender in full or in part.
 - iii. To reject the tender, which is not conforming to the tender terms.
 - iv. To cancel the tender at any stage during the evaluation & before award of work
- b) Offer which deviates from the vital conditions (as illustrated below) of the tender shall be rejected:
 - i. Non-submission of complete offers as mentioned in the tender document,
 - ii. Receipt of offers after due date and time and or by email / fax (unless specified otherwise).
 - iii. Receipt of offers in open condition.
 - iv. Conditional Tenders and Unsigned Tenders will also be rejected.
 - v. Where technical and financial bids are received in ONE Cover in case of Two Packet bid.
 - vi. Where One Indian Agent submits bids for more than one foreign supplier/Principal.
 - vii. Where one OEM and their Trader/Dealer/Distributor submits quotations
 - viii. Bids received without EMD for unexempted bidders. Only OEM's and service providers are exempted from EMD submission. Traders/ Dealers/Authorised representatives of OEM's shall invariably submit the EMD

- 15. Force Majeure:** a) If at any time during the execution of the supply order, the performance in whole or in part by either Buyer or and by the Seller(s) is / are delayed by any reason of force majeure situations such as acts of civil war, civil commotion, sabotage, hostilities, war, fires, explosions, epidemics, natural calamities like floods, earthquakes, volcanoes, storms, acts of God & laws of respective governments or any other causes beyond the control of either parties, hereinafter referred to as "events", provided notice of the occurrence of such event/s is / are communicated by either party, to the other party within 21 days from the date of occurrence thereof, neither party shall by reason such events be entitled to terminate the contract nor shall either party have any claim for damages against

the other in respect of such non-performance and or delay in performance of the contract/ order. Executions on either side shall be resumed as soon as practicable after such event has come to an end or ceased to exist and the decision of Buyer as to whether activities can resume or not, shall be conclusive and final. Occurrence of the events to be certified by Chamber of Commerce / Indian High Commission or Embassies / Government in that Country.

(b) The performance in whole or in part under the captioned tender / contract is prevented or delayed by reason of any such event for a period exceeding sixty days either party may at its option terminate the contract/ further processing of the tender. The relative obligations of both the parties remain suspended during the actual period of force majeure.

(c) The Buyer may extend the delivery schedule as mutually agreed, on receipt of written communication from the Seller regarding occurrence of 'Force Majeure' conditions, but not exceeding six months from the scheduled delivery date. If the 'Force Majeure' conditions extend beyond this period, the Buyer shall have the right to cancel the order without any financial implication to the Buyer or on terms mutually agreed to.

16. Supervision of Commissioning:

Successful BIDDER shall depute concerned specialist, for supervision of commissioning of the machine to be carried out. The successful BIDDER shall make necessary arrangement at their own expenses for stay, transport and other expenses of their specialist during their stay in dhArwAD which also includes imparting free of cost training to IIT dhArwAD personnel.

17. Performance Guarantee (as per GFR 2017 Rule 171):

- a) Successful bidder must furnish 5% of the contract value as a performance security for a period of 02 months beyond the expiry of all warranty related obligations within 15 days of acceptance of the purchase order.
- b) Performance Security may be furnished in the form of stand by LC/foreign BG and Insurance Surety Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a Commercial/Scheduled bank, Bank Guarantee from a Commercial bank or online payment in an acceptable form safeguarding the purchaser's interest in all respects as per GFR 2017, Rule 171 and as amended from time to time.

18. The Institute Reserves the Right to:

- a) Increase or decrease the quantity of the item(s) as per revised requirement.
- b) Reject the bid in absence of not furnishing the documentary evidence in respect of GST and Income Tax clearance certificates together with the performance of supplies in various branches/institutions.
- c) Reject the bid in the event of non-furnishing the authentic documentary evidence in respect of Testing reports / Performance report of the concerned Govt. Organization / Institutions about the products being manufactured and marketed. The performance test of the product can be conducted at Institute level also for which charge will have to be borne by the suppliers.
- d) Reject the supplies already made, if not found up to the mark. Thorough checking may be adopted to test the correctness of the supply. In such an event further action may call to conform or discard the supply.
- e) Nothing in this clause shall in any way release the Supplier from any warranty or other obligations under this Contract.

19. **No joint ventures / partnerships / consortiums will be considered.**
20. **₹5,00,000/- to be submitted in form of BG/DD/FDR- in favour of REGISTRAR, IIT Dharwad (Firms participating as resellers/representing an OEM/submitting Manufacturer Authorisation Form from OEM should invariably submit EMD.** EMD of unsuccessful bidders will be released within 15 days of the finalization of the tender. The EMD of successful bidder will be released only after submission of PBG
21. **LOSS OR DAMAGE:** If goods supplied (part or full) are found defective either in material or workmanship or do not conform to the specifications or unsuitable for the purpose for which they are meant for, the seller has to replace the required goods at free of cost. However, IIT Dharwad reserves right to reject the goods and repudiate.

Section – IV Complete Schedule of Requirements and Compliance

This section has following compliance requirements:	
i	Compliance for commercial terms and conditions of tender
ii	Compliance for technical specifications of the equipment to be supplied

i. Table of compliance for commercial terms & conditions of tender (to be filled by bidder)
(NO FIELD TO BE LEFT BLANK)

Sl. No.	Terms and Conditions	IIT dhArwAD tender requirements	Response by Bidder M/s
1	Unconditional acceptance to all the Terms and conditions set out herein	Declaration to be provided	
2	Price Bid Format (Annexure-V)	BoQ	
3	Price Bid Currency	Any currency	
4	Delivery terms	only CIP, IIT Dharwad basis (Refer point 8 of Section-III)	
5	Freight & Insurance	Confirm point 9 of Section-III	
6	Comprehensive On-site Warranty (as per technical specifications)	Confirm point 10 of Section-III	
7	Installation & Demo	Confirm point 11 of Section-III	
8	GST Rate (If Local supply in India)	Applicable rate @18%	
9	Terms of Payment	Confirm point 6 of Section-III	
10	Performance Guarantee	Confirm point 17 of Section-III	
11	PAN	Copy of PAN required	
12	GST	Copy of GST certificate required	
13	ITRs (2022-23 to 2024-25)	Last 3 financial years' ITR required	
14	Proof of Business existence	For a period of not less than three years	
15	Percentage of local content as per DPIIT Order No. 45021/2/2017-B.E-II dated 15/06/2017 as amended from time to time	Declaration/Certification to be provided with relevant details on OEM letter head	
16	Blacklisting status	Submit a declaration in this regard as per Annexure-I	
17	Previous Experience (Refer point 2) of Section-II)	Necessary documents viz. PO's and satisfactory performance Certificate from end user etc. to be provided in the prescribed format as per Annexure-II	
18	Declaration of Comprehensive Warranty and Maintenance Visits	Submit a declaration in this regard as per Annexure-III	
19	Net worth (Refer point 4) of Section-II)	Necessary documents to be provided in the prescribed format as per Annexure-IV	
20	Annual Turnover (Refer point 4) of Section-II)	Necessary documents to be provided in the prescribed format as per Annexure-IV	
21	Bidder should submit company profile including infrastructure available and their complete product range.	Necessary documents/brochures to be provided	
22	Authorisation Letter	In case of dealer/trader who are not exempted from EMD, shall submit an authorisation certificate on OEM's letter head issued by OEM referring to the bid reference number	
23	EMD Exemption Supporting Documents	OEM registered with MSME being the manufacturer of the quoted equipment/category Self Declaration with Factory License/Pollution Control Board	

		Certificate or BIS Certificate or startup unit proof/Udyam Certificate.	
--	--	---	--

ii. Table of compliance for technical specifications of the equipment to be supplied (to be filled by bidder)

Technical Specification for the purchase of Latest Model High-Resolution Electron Paramagnetic Resonance (EPR) Spectrometer

The Indian Institute of Technology Dharwad invites tenders from reputed manufacturers and their authorized dealers for the supply of a latest model, high-resolution Electron Paramagnetic Resonance (EPR) Spectrometer that meets the following or better technical specifications. The offered system shall be a globally accepted model, commercially available worldwide with an established global presence, and listed on the manufacturer's official global as well as country-specific websites. Bidders must include performance data in support of the technical requirements listed in their quotation, demonstrating that the product offered is fully compliant. All relevant supporting documentation shall be attached. Bids submitted without adequate supporting performance data or documentation may be considered non-responsive.		
Sl. No	Parameter	Technical Specification Required
1	Magnet	The electromagnet should be capable of producing a magnetic field strength of 1.3 Tesla (13 kG) or higher at the center of the pole gap. The field range should be continuously variable from 0 to 1.3 T , controlled via the power supply and field control unit. The magnetic field output must exhibit better than 0.1% linearity between the set magnetic field value and the actual measured magnetic field across the entire operating range (0 to 1.3 T).
2	EPR Spectrometer system	The ESR spectrometer shall operate in the X-band microwave range, approximately 8.7 to 9.9 GHz , covering the full spectrum of standard X-band EPR applications. Systems with operating ranges within this window shall be acceptable. The microwave power output shall be 200 mW or higher , with a built-in digital readout of both microwave frequency and resonator Q-value . The ESR spectrometer should be compatible with measurements at room temperature, liquid nitrogen temperature, and liquid helium temperature . The system should be designed to accommodate variable-temperature accessories such as liquid nitrogen and liquid helium cryostats without modification of the core microwave bridge or resonator. The vendor shall specify the available temperature control options and temperature range achievable with the supplied or compatible accessories.
3	Variable temperature unit	A liquid nitrogen-based variable temperature (VT) unit should be provided, capable of controlling sample temperature over a range of approximately -160 °C to +200 °C (or better) . A suitable dewar (min 25L or better) compatible with the VT system should also be supplied for cryogenic operation.
4	Resonance Cavity	The ESR spectrometer should include a high-sensitivity universal cylindrical resonance cavity (X-band) suitable for room- and low-temperature operation. The cavity should provide a high unloaded Q value (typically 10,000–18,000 or better) to ensure excellent signal sensitivity and stability.
5	Spectrometer Compatibility	The spectrometer shall be compatible with future upgrade to Q-band frequency, with an operating frequency range of 34 GHz – 36 GHz. This feature shall be an integral part of the spectrometer.
6	Software	The EPR spectrometer shall be supplied with a comprehensive software suite capable of supporting user-proven routines for data acquisition, spectral processing, simulation, quantitative analysis, and visualization of EPR spectra The software shall include an EPR simulation module capable of performing spectral simulations for liquids and powders, using full matrix diagonalization for accurate modeling or perturbation theory for approximate simulations, including calculation of g-tensors and hyperfine interaction parameters . The bidder shall

		clearly specify and provide details of the application modules and features available with the supplied software.
7	Training	On-site training (covering instrument operation, data acquisition, and complete spectral analysis and interpretation) should be provided for a minimum of four working days after successful installation. This training must be conducted by an application scientist with expertise in Electron Spin Resonance (ESR/EPR) spectroscopy and shall be divided into two separate sessions of two days each , focusing on basic operation and advanced measurement and analysis capabilities respectively.
8	Service terms	Service facility within India is mandatory and the service engineer (preferably stationed in the southern part of India) should attend the system during breakdown within 72 hrs (If required a personal visit). Proof of service centre should be enclosed.
9	Warranty	The bidder shall quote the system with a minimum of 3 years on-site comprehensive warranty covering all components. The warranty shall cover all parts, spare parts, consumables (if any supplied with the system), labor, maintenance, and service at no additional cost during the warranty period.
10	Accessories	The instrument should be supplied with the following minimum required sample holders along with all supporting accessories and any additional suitable holders necessary for full operation: <ul style="list-style-type: none"> • Suitable sample tubes for X-band ESR analysis – 200 Numbers. • Finger Dewar – 1 number • Aqueous sample cells – 2 numbers • Calibration standards Note: The above represents minimum requirements . All supporting accessories, additional holders, or other suitable sample holders not explicitly listed above must also be supplied in sufficient numbers to ensure complete and functional operation of the quoted instrument.
11	Local supply	i) A suitable chiller system for the magnet, with stable temperature control, should be supplied. ii) The EPR spectrometer shall be supplied with a capable workstation preferably of 14 th Gen i9 processor with 32 GB RAM, 512 GB SSD and 2TB HDD with licensed OS supporting user-proven routines for data acquisition, spectral processing, simulation, quantitative analysis, and visualization of EPR spectra
12	Delivery and installation	The bidder shall be responsible for installation and commissioning of the system at the IIT Dharwad site, and all related expenditure shall be borne by the supplier. Necessary pre-installation requirements and site preparation details shall be provided along with the technical bid. The service engineer shall visit the site prior to system delivery to verify readiness of the site.
13	Experience	The bidder must enclose a minimum of three (3) Purchase Order (PO) copies of the quoted model, duly issued by reputed research institutes and/or government organizations, along with the tender bid.

In addition to above specification the vendor/bidder has to provide catalogue/ brochure/ manuals and necessary technical documents in respect to the line item.

I/We M/s_____ hereby declare and certify that we comply with all the above specifications.

Authorized Signatory with Seal

(On Organisation Letterhead)

Annexure-I

UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT

We hereby confirm and declare that we, M/s -----, is/are not under any active debarment by any Ministry /Department / PSU / Autonomous Bodies of Central or any State Governments as on the date of bid submission.

Any change in the above status during the evaluation of the present bid shall be intimated to IIT Dharwad immediately, without fail.

Date:

(Authorised signature & seal of the bidder)

(On Organisation Letterhead)

Annexure-II

Format for providing experience details

(Bidders should only submit those purchase orders along with work completion certificates which are similar in nature to the present tender and meeting the financial requirement)

Sl. No.	Year	Name of the Client	Order No. & Date	Contract value per	Remark
					Supporting documents are to be attached.

Date:

(Authorised signature & seal of the bidder)

Annexure-III

(On Organisation Letterhead)

DECLARATION OF COMPREHENSIVE WARRANTY AND MAINTENANCE VISITS

I/We M/s _____ hereby declare that items to be supplied against this bid shall be covered by the specified comprehensive warranty as per schedule in the specifications document with scheduled maintenance visit on call basis/regular basis/quarterly basis by the successful bidder.

Date:

(Authorised signature & seal of the bidder)

(ON LETTER HEAD OF CA)

(Annexure-IV)

TURNOVER & NETWORTH CERTIFICATE

THIS IS TO CERTIFY THAT TURNOVER OF M/s _____ HAVING PAN _____
IS AS UNDER:

FINANCIAL YEAR	AMOUNT IN WORDS	AMOUNT IN FIGURES
2022-23		
2023-24		
2024-25		

AVERAGE TURNOVER=

NETWORTH

FINANCIAL YEAR	AMOUNT IN WORDS	AMOUNT IN FIGURES
2022-23		
2023-24		
2024-25		

Date:

(Authorised signature & seal of CA)

(Annexure-V)

Price Bid

(TO BE UPLOADED AS PART OF FINANCIAL BID)

S. No	Description of Item & Specification	Qty	HSN Code / SAC Code	Total Bid Price*
1.	SUPPLY INSTALLATION AND COMMISSIONING OF HIGH-RESOLUTION ELECTRON PARAMAGNETIC RESONANCE (EPR/ESR) SPECTROMETER	01 Nos.		
2.	Discount offered (if any), on base price quoted			
3.	Sub-Total			
4	Customs Duty@5.5%			
4	IGST / CGST / SGST@ 18%			
5.	GRAND TOTAL BID PRICE			
6.	GRAND TOTAL BID PRICE (in words)			

Authorised Signatory

Note: if there is discrepancy in GRAND TOTAL BID PRICE in figures and words, the amount written in words will be considered as final.