



भारतीय प्रौद्योगिकी संस्थान तिरुपति

Indian Institute of Technology Tirupati

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Tender No. IITT/CY/2023-24/12

02nd August 2023.

NOTICE INVITING TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF TWO CHANNEL 400 MHZ NMR SPECTROMETER WITH ACCESSORIES

(E-PROCUREMENT MODE ONLY)

Indian Institute of Technology Tirupati (IIT Tirupati) invites online bids (e-tender) in Two bid system from eligible **Class-I / Class-II / Non local suppliers** in line with Government Public Procurement Order No. P-45021/2/2017-BE-II dated: 04.06.2020 for the following:

| Item Description | Quantity | Tender Fee (Inclusive of all taxes in Rs.) |
|--|----------|--|
| Supply, installation, testing and commissioning of Two Channel 400 MHz NMR Spectrometer with accessories | 01 Unit | 2500/- |
| Total | | 2500/- |

The Tender Document can be downloaded from Central Public Procurement (CPP) Portal <http://eprocure.gov.in/eprocure/app> and bid is to be submitted online only through the same portal up to the last date and time of submission of tender.

Critical Dates of Tender:

| | | | |
|---|---|------------|-----------|
| 1 | Date and time of Online Publication/Download of Tenders | 02.08.2023 | 18.00 hrs |
| 2 | Bid submission start date & time | 02.08.2023 | 18.00 hrs |
| 3 | Bid submission close date & time | 30.08.2023 | 15.00 hrs |
| 4 | Closing date & time for submission of EMD/Tender fee | 30.08.2023 | 15.00 hrs |
| 5 | Opening of Technical bids | 31.08.2023 | 15.00 hrs |

1. About IIT TIRUPATI:

Indian Institute of Technology Tirupati (IIT Tirupati) is an Autonomous Institute under Ministry of Education, Govt. of India.

2. Technical Specifications: Schedule of requirement

| S N | Item Description for Two Channel 400 MHz NMR Spectrometer with accessories |
|--------|---|
| 1 | <p><u>Part A: Main Component:</u></p> <p>Technical Specifications:</p> <p>1. MAGNET:</p> <ul style="list-style-type: none">➤ Latest technology based actively shielded superconducting magnet (9.4 Tesla) with operational frequency of 400 MHz for 1H NMR.➤ Bore diameter: 54 mm (standard bore). Specify manufacturer of magnet.➤ Shortest possible 5G fringe field (radial from the center of the magnet 0.5 m or less, and axial from the center of the magnet 1.0 m or less) with advanced shielding technology.➤ Expected field drift 4 Hz/h or less.➤ Anti-vibration feet pad for dampening the floor vibrations (capable of damping frequencies up to 14 Hz or more).➤ Deuterium lock channel should be compatible with gradients and automated shimming hardware.➤ Long Liquid Helium hold time: a minimum of 365 days or more, refill volume should be specified.➤ Long Liquid Nitrogen hold time of at least 14 days.➤ Digital Liquid Helium and liquid nitrogen level meters with alarm function for low levels.➤ Cryogen cooled shim system in addition to room-temperature shims for optimal line shape (please mention the number of cryogen-cooled and room-temperature shim coils); automated gradient shimming capability with associated accessories (software/hardware).➤ Pneumatic sample load/spin/eject system.➤ Automated and manual shimming capability with associated accessories (Software/Hardware) <p>2. SPECTROMETER CONSOLE AND ELECTRONICS:</p> |

- Advanced feature based Two broadband frequency generation independent identical RF channels with two RF Transmitter and Two Receivers (full frequency range generation) for multinuclear experiments.
- Two channel amplifier system with linear broad band amplifiers with minimum power levels of 450 W or higher for 1H and 450 W or higher for X (¹⁹F, ¹³C, ¹⁵N, ¹¹B, ³¹P to ¹⁰⁹Ag, ⁷⁷Se, ²⁹Si, ⁷⁵As, ¹¹¹Cd/¹¹³Cd, ¹¹⁹Sn, ²⁰⁷Pb, ¹⁹⁹Hg, ⁷⁵As, and other nuclei) respectively for double resonance liquid and solid-state NMR experiments.
- Digital lock channel.
- Single and multi-receiver capability for simultaneous acquisition on multiple channels.
- Gradient unit: Z-shielded gradient having 45G/cm or better with ability to perform gradient spectroscopy.
- Wave form generator for all channels for pulse shaping (please specify bits and total memory of the shape card).
- Temperature control unit: Ability to perform variable temperature experiments from -100 °C or Lower to +150 °C or above
- Low temperature liquid Nitrogen based accessory to control the sample temperature from ambient to -110 °C (± 20 °C) in addition with the electric cooled temperature controller. Low temperature unit should include suitable liquid nitrogen dewar, evaporator and transfer line (tube) of sufficient length (5 miter). All support equipment for cryostat (e.g., liquid He and liquid N₂ transfer line etc.) should be provided. Two extra tubes for liquid nitrogen transfer should be provided.
- Programmable System Power down through software.
- Real time (online) reaction monitoring unit (Syringe pump and capillaries) along with temperature-controlled lines (-0°C to 80°C) with pressure controlled up to 10 bar and the software to control the unit.
- The instrument must be well equipped to carry out high-resolution Solid-state NMR experiments such as 1D, 2D NMR with various combination of selected nuclei, having capabilities for most up-to-date multidimensional NMR experiments. An efficient shimming system to obtain excellent line shape in solid-state configuration is required
- Fully automated pneumatic unit for magic-angle spinning experiments that includes spinning rate stabilization.
- Suitable transfer system for solids probe
- 1000 Nos of high quality 5mm, 7" NMR tubes for routine sample recording.

- 20 nos of 3 mm – 4 mm rotors plus caps along with accessories such as cap removal, sample filling assembly etc
- Automatic sample Changer for 60 samples with 60 samples holders. Sample holders should have the capability to perform variable temperature experiments from -100 °C or Lower to +150 °C or above
- Suitable 5 mm spinners for low and high-temperature NMR measurements: -30 °C to +50 °C (Teflon spinners – 10 nos).
- Set of standard test samples (for line shape, sensitivity and other tests) for multinuclear solution NMR.
- Non-magnetic tool kit, essential spare parts like fuses etc.

Liquids Probe (Two Numbers):

- Two numbers each of latest, high resolution 5 mm multinuclear broadband, double resonance with an actively shielded single axis Z gradient, optimized for observation of ^1H with ^{19}F decoupling or ^{19}F observe with ^1H decoupling and for observation of nuclei in the range of ^{19}F , ^{13}C , ^{15}N , ^{11}B , ^{17}O , ^{31}P to ^{109}Ag , ^{75}As , ^{77}Se , ^{199}Hg , etc. with ^1H decoupling. Ability to perform 2D $^1\text{H}/^{19}\text{F}$ experiments.
 - High S/N ratio. ^1H sensitivity $\geq 550:1$; ^{19}F sensitivity (^1H dec) $\geq 550:1$; ^{13}C sensitivity $\geq 220:1$; ^{13}C sensitivity (^1H dec) $\geq 250:1$ (40ppm noise); ^{31}P sensitivity $\geq 200:1$; ^{15}N sensitivity $\geq 30:1$; ^{199}Hg , ^{77}Se , ^{75}As , and other nuclei.
- Provide the latest and high-resolution probe for ^{77}Se , ^{29}Si , ^{75}As , $^{111}\text{Cd}/^{113}\text{Cd}$, ^{119}Sn , ^{207}Pb , ^{199}Hg , and other nuclei
- Automated tuning and matching capability.
- Temperature range: -100 °C or Lower to +150 °C or above.
- Compatibility of the probe with 3 mm NMR tubes or its likes.
- Maximum gradient strength (45 G/cm or higher).
- Gradient recovery times (not more than 100 μs).
- Test certificate with standard, mention the sensitivity for the sample measured.

Solids Probe:

- Solid-state CP MAS broadband Probe of 4mm diameter with MAS ≥ 12 kHz spinning speed. Nuclei ^1H , ^2H , ^7Li , ^{13}C , ^{15}N to ^{31}P , ^{77}Se , ^{29}Si , ^{75}As , $^{111}\text{Cd}/^{113}\text{Cd}$, ^{119}Sn , ^{207}Pb , ^{199}Hg , and other nuclei.
- Please specify the following

- Configuration of the coils.
- X-channel should be tunable from ^{31}P (161MHz) to ^{15}N (40MHz).
- Best resolution and line-shape using the standard sample.
- Best Signal-to-noise (S/N) ratio values for each nucleus of the probe measured using standard samples (Please provide data and mention the sample used).
- ^1H & ^{19}F high power decoupling for up to 50ms.
- Solid-state NMR measurement Temperature range $-80\text{ }^\circ\text{C}$ to $+200\text{ }^\circ\text{C}$ along with required accessories.
- Auto-tuning capability for both X-nuclei and ^1H .
- Automated magic angle adjustment capability.

3. SOFTWARE and HARDWARE:

SOFTWARE:

- Most comprehensive latest NMR software to run up-to-date hetero-nuclear multi-dimensional NMR experiments including latest experiments for the reconstruction of multi-dimensional NMR study, for control, data acquisition and processing, and automatic recording of multiple experiments. The package should include all the latest pulse sequences for multi-dimensional & multi-receive NMR experiments available with the vendor. The licensed software modules should include tools for Structure Analysis, Integration and Deconvolution of 1D, 2D (HSQC, TOCSY, COSY, HETCOR, NOESY, HMBC, DOSY etc.) and 3D spectra, NMR simulation, Multiplet analysis, Relaxation data analysis, etc. Gradient shim program to do DOSY experiments, and modules to carry out 2D and 3D experiments. Automatic setup with acquisition, analysis and quantification of the NMR samples. High-end graphic tools for plotting one- and multiple-dimension spectra, for drawing structure and for making presentations on NMR experiment. Structure elucidation software. Auto pulse calibrate software. Complete set of all manuals (service and operational) should be provided.
- Any software upgrade (pulse sequence and processing) or new software (pulse sequence and processing) that are released during warranty periods should be given (& install in the system) to the user free of cost.
- Unlimited number of licenses should be provided for the software.

HARDWARE:

- Suitable branded high-end workstations (3 numbers) each with intel core i7, 11th generation or better, windows 10 professional or better, 64 GB RAM DDR4, 5TB X 2 HDD (in each workstation), 1TB SSD for data acquisition and processing with latest configuration. A minimum of 3 years warranty should be provided for the entire workstations including the LED monitors. Additional, 3 branded, latest 24-inch curved LED screen display should be provided along with work stations. The workstation should be configured for easy transfer of files in LAN.

4. WARRANTY:

Comprehensive on-site warranty for 5 years on the complete instrument and the third-party items including air-compressor (mentioned in PART B) with standard vendor warranty, and the same must be specifically mentioned in the quotation by the vendor or principal. In case the vendor provides the warranty, the principal should certify (authenticate) the extended warranty.

The comprehensive warranty should cover the following:

- Free maintenance and service.
- Free replacements of parts.
- In case of any problem in the units/parts, accessories, the bidder should provide and install spares to run the spectrometer until it gets repaired/replaced. The required spares should be shipped to the site without any cost.
- In case the machine is down during the warranty period, the number of days accordingly should be compensated by providing an additional extended warranty free of cost.
- An adequate number of engineer visits (minimum 2) every year should be covered during the warranty period.
- Third-party/local items supplied along with the instrument should have a standard warranty period by the vendor
- The warranty period should start from the successful installation and commissioning of the spectrometer.

Warranty includes: All parts and labor; proper schedule of regular maintenance visits and emergency visits; regular upgrades to software during the warranty period. Ensure

availability of spare parts and consumables for at least 10 years for the installed spectrometer model from the date of installation.

5. Onsite Training:

Responsibility of on-site technical, operational and maintenance support for 24 x 7 operation for the entire warranty period for free of cost.

The full capabilities of the system need to be demonstrated to the complete satisfaction and specify the pre-installation requirement.

Company should have dedicated application specialist with a proven track record to provide on-site training.

Training to be divided in parts – three weeks training at the time of installation and three weeks training after three months of successful installation of the system at the user place.

All the quoted specifications must be experimentally proved during installation and training.

6. Refilling of Liquid Helium for the Period of 7 Years:

- The vendor should supply and refill liquid helium for **5 years** from date of installation to keep the superconducting magnet active. No excuse will be entertained if the supply is prohibited due to any market issue.
- The scope of the supply includes cost of refilling of liquid Helium for the period of **7 years** (5 years warranty period + **2 years** AMC period)

7. Terms & Conditions

Experience: The vendor should be an authorized provider of sophisticated high-precision 400 MHz NMR for the past 5 Years or more with 3 or more past installations of similar or better configuration systems in Nationally funded institutions like IIT's, IISERs, IISc etc. The purchase orders and performance/service satisfactory certificate of the same must be submitted along with the tender.

The users list for the quoted and similar quoted models in India should be provided along with the appropriate certificates from the user for the last five years justifying the stability, case of operation and maintenance requirement so that we have the option to choose the best system in terms of performance and not by mere specifications alone.

All Items will be considered for finding the L1. To qualify in the technical bidding process, it is mandatory for the vendors to give a proper quote for all the items. The responsibility of providing this information and adhering to this condition lies with the vendor only. All other terms and conditions of Institute & GOI as per rules will apply. The Institute reserves all rights.

02 Part B: Accessories and Miscellaneous Items:

- a) ISO-9001 certified oil-free scroll air-compressors complete with dryer and all required filters, 5HP or more motors and proper ratings and specifications and one sufficiently large buffer tank to operate solids and liquid 400MHz system.
- b) Provide air pressure storage tank with water drain provision to operate an auto sampler, to lift the sample tube and also for spinning.
- c) Required amount of liquid helium for installation to be provided by the NMR vendor. In case of magnet quenching during installation, the NMR vendor will take full responsibility for recharge of magnet and provide the cryogenics required for re-installation at no additional cost.
- d) The vendor should supply and refill liquid helium for 5 years from date of installation to keep the superconducting magnet active. No excuse will be entertained if the supply is prohibited due to any market issue.
- e) The following Deuterated Solvents must be supplied along with the equipment.
20 nos X 100 mL sure seal deuterated CDCl_3 , 5 nos X 100 mL acrosealed bottle of D_2O , 10 nos X 25 mL CD_2Cl_2 should be supplied.
10 nos X 10 mL sure seal deuterated solvents of CD_3CN , CD_3COCD_3 , CD_3OD , D_8 -THF, D_6 -Benzene, D_5 -Pyridine, D_8 -Toluene, and D_4 -Acetic Acid should be supplied.
40 nos X 10 mL deuterated solvents of DMSO-D_6 and D_2O should be supplied as ampules (each 10 mL bottle).
2 nos X 5 mL D_4 -1,2-Dichloroethane, D_2 -1,1,2,2-Tetrachloroethane D_4 -1,2-Dichlorobenzene, and Ethanol- D_6 (anhydrous) should be supplied.
5 nos X 5 mL 2-propanol- D_8 , 2 nos X 25 mL Bromobenzene- D_5 , 2 nos X 10 mL Cyclohexane- D_{12} , 5 nos X 5 mL DMF- D_7 and 2 nos X 10 mL Trifluoroacetic acid- D should be supplied.
- f) 10 kVA UPS with one-hour battery backup – 1 no.

| | |
|----|--|
| | <p>g) 1 No of Liquid nitrogen containers of 200 - 250 litres storage capacity along with transfer line and pressure gauge, appropriate length of corrugated plastic tubing with silicon tubing to fit to nitrogen inlet ports, and one trolley for transportation. 3 Nos of additional liquid nitrogen containers of minimum ~50 litres capacity.</p> <p>h) One high-end multi-functional (auto-duplex colour printing laser printer), compatible for A3, A5 and A4 size printing papers (. Additionally, one compatible high-end multi-functional (auto-duplex B/W printing laser printer).</p> <p>i) 4 No of Cryogenic gloves for filling.</p> <p>j) Specify pre-installation requirement including minimum ceiling height, room size etc.</p> <p>Warranty: Comprehensive on-site warranty for 5 years on the complete instrument and the third-party items including air-compressor (mentioned in PART B) with standard vendor warranty, and the same must be specifically mentioned in the quotation by the vendor or principal from the date of acceptance of material by IIT. In case the vendor provides the warranty, the principal should certify (authenticate) the extended warranty.</p> |
| 03 | <p>Part-C: Annual Maintenance Contract (AMC):</p> <p>Two years of AMC after the completion of the initial 5-year comprehensive warranty must be quoted separately by the bidder.</p> <p>Appropriate documents must be attached along with the quotation in this regard. A certificate will be required from the original equipment manufacturer that the technical support, along with all essential spares, will be provided/made available for at least 5 years after the expiry of the initial 5 years standard warranty period and additional 2 years AMC should be provided.</p> <p><u>Note: The AMC scope should be clearly mentioned in the technical bid</u></p> |

- **The technical bid should contain unpriced bill of material with quantities of each line item.**
- **All offered products Technical Specifications and Brochures are to be submitted along with the Technical Bid.**
- **The detailed scope of coverage of the Warranty shall be provided in the compliance statement -Annexure-VII.**
- The Bidder shall furnish, as part of its bid, documents establishing the conformity of the Equipment that the Bidder proposes to supply under the Contract to the requirements of the Purchaser, as given in the Tender Document.

- The documentary evidence of conformity of the Equipment to the Tender Document may be in the form of written descriptions supported by Brochure / literature / diagrams / certifications, including: (a) A detailed description of the essential technical, functional and performance characteristics of the Equipment that the Bidder is proposing to supply; (b) Technical details of the major subsystems/components of the Equipment.

3. TENDER FEE & BID SECURITY DECLARATION DETAILS:

3.1 Tender Fee of Rs.2500/- (Rupees Two Thousand five hundred only) should be submitted through ECS (Bank transfer / NEFT / RTGS) in favour of Indian Institute of Technology Tirupati.

3.2 Bank A/c Details for crediting Tender Fee:

Name : Indian institute of Technology Tirupati Main Account
Bank : State Bank of India
Account No : 35523338208
IFSC Code : SBIN0006677

3.3 Tender Fee and Bid Security Exemption:

I) **Micro and Small Enterprises (MSEs):**

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) **for goods produced and services rendered**, are exempted from Tender fee and Bid Security. However, they have to enclose **valid self-attested registration certificate(s)** along with the tender to this effect.

Accordingly, MSEs shall be required to submit valid **Udyam Registration Certificate** for availing benefit under MSE Procurement Policy.

The benefit as above to MSEs shall be available only for Goods produced and services rendered by MSEs. However, traders are excluded from the purview of MSE Procurement Policy.

II) **Startup(s):**

Startup(s) as recognized by **Department for Promotion of Industry and Internal Trade (DPIIT)**, Govt. of India, are exempted from Tender fee and Bid Security. However, they have to enclose **valid self-attested registration certificate(s)** along with the tender to this effect.

Eligible MSE and startup bidders who seeks exemption from Tender fee/Bid Security as per clause no. (c) above, if they withdraw or modify their bids during the period of validity, or if they are awarded the contract and they fail to sign the contract, or to submit a performance security before the deadline defined in

the request for bids document, they will be suspended for the period of three years or as decided by the competent authority from being eligible to submit bids for contracts with the entity that invited the bids.

3.4 The Bidders will have to upload scanned copy of Payment details towards tender fee and the same will be accepted only on verification and confirmation by the Institute. Any delay in credit will not be entertained by the Institute. **(As per the format attached in Annexure – I)**

3.5 Other than eligible MSE and Startup bidders, Bid Security Declaration:

Bidders should have to submit the Bid Security Declaration (As per the format attached in annexure-II) in duly filled and signed condition.

4. ELIGIBILITY CRITERIA

4.1 Other Important Documents (OIDs)

Firm Incorporation Certificate, PAN details, GST details are to be provided.

4.2. Statutory Documents:

I) The Bidder should give self-declaration certificate for acceptance of all terms & conditions of tender documents. A duly completed certificate to this effect is to be submitted as per the Annexure-I.

II) The firm should not be in the active debarred list by any Central / State Government / Public Undertaking / Institute and no criminal case registered / pending against the firm or its owner / partners anywhere in India. A duly completed certificate to this effect is to be submitted as per Annexure-III.

III) Experience and Past Performance:

The bidder/OEM should have supplied similar system during past three financial years **i.e. during 2018-19 to 2020-21 or 2019-20 to 2021-22** in India to CFTI Institutions like IITs, IISERs, IISc etc. Vendor should provide satisfactory installation certificates with product details as proof with customer contacts email and phone number as per the **Annexure-IV**.

IV) The Annual Turnover should be at least Rs. 5 Crores and be profitable during each of the previous three financial years **i.e. during 2018-19 to 2020-21 or 2019-20 to 2021-22**. Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted as per the **Annexure-V**.

- V) **In case the bidder is a Class-I / Class-II/ Non-Local Supplier in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020 as amended from time to time. A Self-Declaration Certificate regarding “Class-I/Class-II/Non local Supplier” for the tendered items as per the Annexure-V is to be submitted.**

As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part (1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

- a. 'Local Content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all custom duties) as a proportion of the total value, in percent.
- b. 'Class-I local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50% as defined under this order.
- c. 'Class-II local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has minimum local content of 20% but less than 50%, as defined under this order.
- d. 'Non-local supplier' means a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%, as defined under this order.
- e. Complaint redressal mechanism: In case any complaint received by the procuring agency or the concerned Ministry/Department against the claim of a bidder regarding local content/domestic value addition in an electronic product, the same shall be referred to STQC.
- f. The bidder shall be required to furnish the necessary documentation in support of the domestic value addition claimed in an electronic product to STQC. If no information is furnished by the bidder, such laboratories may take further necessary action, to establish the bonafides of the claim.
- g. A complaint fee of Rs. 2 lakh or 1% of the value of the domestically manufactured products being procured (subject to a maximum of Rs.5 lakh), whichever is higher, to be paid by Demand Draft to be deposited with STQC. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.
- h. False declarations will be in breach of the Code of Integrity under Rule 175 (1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General

Financial Rules along with such other actions as may be permissible under law.

VI) The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender.

VII) Prior Registration and / or Screening of bidders:

Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder registered with the competent authority. **The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration.**

“Bidder” (including the term ‘tenderer’, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

“Bidder from a country which shares a land border with India” for the purpose of this Order means :-

- An entity incorporated, established or registered in such a country; or
- A subsidiary of an entity incorporated, established or registered in such a country or
- An entity substantially controlled through entities incorporated, established or registered in such a country; or
- An entity whose beneficial owner is situated in such a country; or
- An Indian (or other) agent of such an entity; or
- A natural person who is a citizen of such a country; or
- A consortium of joint venture where any member of the consortium or joint venture falls under any of the above.

The detailed terms & conditions issued from time to time in this regard by Government of India will be applicable.

VIII) Authorized Representatives:

Bids of bidders quoting as authorised representative of a principal manufacturer would also be considered to be qualified, provided:

- (i) Their principal manufacturer meets all the criteria above without exemption, and
- ii) The principal manufacturer furnishes a legally enforceable tender-specific authorisation assuring full guarantee and warranty obligations as per the general and special conditions of contract;

and

- iii) The bidder himself should have been associated, as authorised representative of the Principal Manufacturer for same set of services as in present bid (supply, installation, satisfactorily commissioning, after sales service as the case may be) for same or similar item for past three years ending on bid opening date.

4.3 TECHNICAL CRITERIA

Bidders should comply the specification of the tendered item in all respect. The detailed format is attached at Annexure-VII. The bidder is to complete the same in all respect and submit accordingly.

5. FINANCIAL BID DETAILS

5.1 Financial bid i.e. BOQ given with tender (in **Excel format**) to be downloaded first and uploaded after filling all relevant information strictly as per the format failing which the offer is liable for rejection. Kindly quote your offer on FOR IIT Tirupati (inclusive of all taxes and charges) for indigenous bidders. CIP Chennai airport for foreign bidders. **Vendor should quote prices in BOQ only, offers indicating rates anywhere else shall be liable for rejection.**

- **Quote for Part-A (Main equipment) should be as per BoQ -1**
- **Quote for Part-B (Accessories and Miscellaneous items) should quote as per BoQ -2**
- **Quote for Part-C (Annual Maintenance) should quote as per BoQ -3**

L1 shall be arrived based on the quote offered for equipment (Part-A), Accessories and AMC (Part-B & C) will not be considered for L1 evaluation.

6. BID PRICES

- 6.1 Prices must be quoted separately for each equipment/item identified.
- 6.2 Price quoted for equipment must include all costs associated with packing, transportation, insurance, all duties and levies, delivery of equipment, loading and unloading on **DOOR DELIVERY** basis to the **Indian Institute of Technology Tirupati, IIT Tirupati campus, Venkatagiri Road, Yerpedu Mandal, Pin: 517619, Tirupati District, Andhra Pradesh, India** including its installation, commissioning, integration and validation.
- 6.3 In case of equipment originating in other countries, prices shall be quoted on CIP (Port of Destination – Chennai Airport/ Seaport). The comparable prices will be arrived based on CIP basis. In the case equipment originating in other countries, the bidder shall provide the following at the time of supply, within 24 hours of dispatch: a) Supplier's Invoice giving full details of the goods including quantity, value, etc.; b) Packing list; c) Certificate of country of origin; d) Manufacturer's guarantee and Inspection certificate; e) Inspection certificate issued by the Purchaser's Inspector; f) Insurance Certificate upto

destination, IIT Tirupathi g) Name of the Vessel/Carrier; h) Bill of Lading/Airway Bill; i) Port of Loading; j) Date of Shipment; k) Port of Discharge & expected date of arrival of goods and l) Any other document(s) as and if required in terms of the contract.

7. Bid Currency:

- 7.1 Prices of indigenous equipment/items shall be quoted in **Indian Rupees**.
- 7.2 Prices of equipment/items originating in other countries shall be quoted in the **currency of the country of origin** and the portion of allied work and services, which are to be undertaken in India, are to be quoted in the Indian Currency. The comparison of financial bids would be done after converting the currency value in INR based on RBI rates applicable on the date of opening of the tender.
- 7.3 As per Tender Clause No.5, for Indigenous bidders the quote should be FOR IIT Tirupati (inclusive of all taxes and charges) and for foreign bidders the quote should be upto CIP Chennai Airport. In order to match with Indigenous bidders for arriving L1, the cost towards concessional customs duty, IGST, clearance and onward transmission upto IIT Tirupati will be loaded for the foreign bidders, by adding 30% of the quoted CIP value.

8. TIME SCHEDULE:

| S. No. | Particulars | Date | Time |
|--------|--|------------|-----------|
| a. | Date of Online Publication of Tender | 02.08.2023 | 18.00 hrs |
| b. | Bid Submission Start Date | 02.08.2023 | 18.00 hrs |
| c. | Bid Submission Close Date | 30.08.2023 | 15.00 hrs |
| d. | Closing Date & Time for Submission of EMD & Tender Fee | 30.08.2023 | 15.00 hrs |
| e. | Opening of Technical Bids | 31.08.2023 | 15.00 hrs |

9. AVAILABILITY OF TENDER

The tender document can be downloaded from <http://eprocure.gov.in/eprocure/app> and be submitted only through the same website.

10. BID VALIDITY PERIOD

The bid will remain valid for 120 days from the date of opening as prescribed by IIT Tirupati. A bid valid for a shorter period shall be rejected, being non-responsive.

11. BID SUBMISSION

11.1 Instruction to Bidder

- I) 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. **The registration is completely free of charge.**
- II) Possession of a valid Class II/III DSC in the form of smart card / e-token is a prerequisite for registration and participating in the bid submission activities. DSCs can be obtained from the authorised certifying agencies recognized by CCA India (e.g. Sify/TCS/nCode/eMudhra etc).
- III) 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.
- IV) 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 DSCs to others which may lead to misuse.
- V) The Bidders are required to log in to the site through the secured log-in by entering their respective user ID / password and the password of the DSC.
- VI) The CPP portal also has user manuals with detailed guidelines on enrolment and participation in the online bidding process. The user manuals can be downloaded for reference.

11.2 TENDER CLARIFICATION

- I) In case the bidders require any clarification regarding the tender documents, they are requested to contact our office Ph. no: 0877-2503572, Email ID: purchase@iittp.ac.in on or before due date.
- II) Technical and Specifications related Clarifications contact our office No: 9871317927 Email ID: gproy@iittp.ac.in on or before due date.
- III) 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.

11.3 ONLINE BID SUBMISSION PROCEDURE

Cover-1: The file should be saved in a PDF version numbered sequentially and should comprise of the following items:

Packet-1:

Duly Completed Scanned PDF copy of, PAN, GST, Firm Registration certificate and Annexure-I to VIII with relevant supporting documents

Only the relevant documents as per the tender clauses are to be uploaded along with duly completed checklist as per the annexure-X. Uploading of other than the required documents may liable for rejection of the bid.

Cover-2:

A standard BOQ format has been provided in excel format. Bidders are required to download the BOQ excel file and fill their financial offer on the same BOQ format. After filling the same, submit it online in excel format, without changing the financial template format.

Note:

If the bid is incomplete and / or non-responsive it will be rejected during technical evaluation. The bidder may not be approached for clarifications during the technical evaluation. So, the bidders are requested to ensure that they provide all necessary details in the submitted bids.

12. BID OPENING

12.1 Technical Bids will be opened on **31.08.2023 @ 15.00 Hrs.**

12.2 Financial Bids of the eligible bidders will be opened on a later date. The date and time for opening of Financial Bids will be announced later.

12.3 **Bids should be summarily rejected, if tender is submitted other than through online or original tender fee/Bid security declaration are not submitted within stipulated date / time.**

13. BID EVALUATION

Based on results of the Technical evaluation IIT Tirupati evaluates the Commercial Bid of those Bidders who gets qualify in the Technical evaluation. The Commercial Bid with the lowest price will be the highest evaluated bid.

13.1 Purchase Preference

I) Micro and Small Enterprises (MSEs):

Micro and Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) **for goods produced and services rendered**, may be provided following purchase preference:

| Item wise Quantity | Price Quoted by MSE | How the tender shall be finalized |
|---------------------------|----------------------------|--|
| Cannot be split | L1 | Full Order on MSE |
| Cannot be split | Not L1 but within L1 + 15% | Full Order on MSE subject to matching L1 Price |

II) Preference to Make in India

- a) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **divisible** in nature, the “Class-I Local Supplier” shall get purchase preference over “Class-II Local Supplier” as well as “Non-Local Supplier” as per following procedure:
- i) **Among all qualified bids, the lowest bid will be termed as L1. If L1 is** “Class-I Local Supplier”, the contract for full quantity will be awarded to L1.
 - ii) **If L1 bid is not a** “Class-I Local Supplier”, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the “Class-I Local Supplier” will be invited to match L1 price for the remaining 50% quantity subject to the Class-I Local Supplier’s quoted price falling within the margin of L1 + 20%, and contract for that quantity shall be awarded to such “Class-I Local Supplier” subject to matching the L1 price. In case such lowest eligible “Class-I Local Supplier” fails to match L1 price or accepts less than the offered quantity, the next higher “Class-I Local Supplier” within the margin of L1 + 20% shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on Class-I local suppliers, then such quantity may be ordered on the L1 bidder.
- b) In procurement goods or works which are covered under by para 3(b) of the extant Public Procurement (Preference to Make in India) Order 2017 dated 04 June 2020 and which are **not divisible** in nature, and in procurement of services where the bid is evaluated on price alone, the “Class-I Local Supplier” shall get purchase preference over “Class-II Local Supplier” as well as “Non-Local Supplier” as per following procedure:
- i) **Among all qualified bids, the lowest bid will be termed as L1.**
If L1 is “Class-I Local Supplier”, the contract will be awarded to L1.
 - ii) **If L1 is not a** “Class-I Local Supplier”, the lowest bidder among the Class-I Local Supplier, will be invited to match the L1 price subject to Class-I Local Supplier’s quoted price falling within the margin of L1 + 20%, the contract shall be awarded to such Class-I Supplier subject to matching the L1 price.
 - iii) **In case such lowest eligible Class-I Local Supplier fails to match the L1 price, the** “Class-I Local Supplier” with the next higher bid within the margin of L1 + 20% shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the of Class-I Local Supplier within

the margin of L1 + 20%, the contract may be awarded to the L1 bidder.

iv) Class-II Local Supplier/Non local supplier will not get purchase preference.

14. PAYMENT TERMS

For Indian bidders:

No advance payment will be made in any case. Bills in Duplicate should be sent and the payment shall be released generally within 30 days, only after it is ensured that the items / quality of the items supplied are to the entire satisfaction of IIT Tirupati and completed the entire work within the stipulated delivery schedule. If any item is found defective, or not of the desired quality etc., the same should be replaced by the firm(s) immediately for which no extra payment shall be made.

For Foreign bidders :

For imported items payment will be made through irrevocable Letter of Credit (LC). 90% of LC will be opened on **CIP Chennai airport value** and will be released against the proof of despatch documents and balance 10% will be released through wire transfer after the successful installation, commissioning and demonstration, training of the equipment at IIT Tirupati site.

Bank charges on LC within India to applicant account and outside India to beneficiary account.

The charges for any LC amendments requested by the vendor will have to be paid by the vendor.

15. WARRANTY OF QUALITY AND QUANTITY

15.1 The awardee shall give minimum **5-years onsite warranty** on successful completion of supply, and acceptance of supplied items. Additional 2 years of AMC after the completion of initial 5-year comprehensive warranty must be quoted separately by the bidder.

15.2 The awardee shall give warranty that all items are as per specification(s), conforming to the specified design and there are no defects in the process of manufacturing, packaging, transportation and delivery.

15.3 Upon receipt of notice from IIT Tirupati for defective material, the firm shall **within 15 days** of receipt of the notice, replace the defective material, free of cost at the destination. The firm shall take over the defective material at the time of their replacement. No claim whatsoever shall lie on IIT Tirupati for the replaced goods thereafter. If the firm fails to replace the defective goods within a reasonable period, IIT Tirupati may proceed to take such remedial actions as may be necessary, at the company's risk and expense.

16. LIQUIDATED DAMAGES

In case of delay in Supply by the stipulated date, IIT Tirupati reserves the right of imposing penalty @0.5% per week on the value of the undelivered items subject to maximum 10% of the cost of undelivered items.

17. DELIVERY SCHEDULE

17.1 The successful bidder should execute the order successfully i.e. Supply, Installation of ordered items within **30 weeks** at IIT Tirupati from the date of issue of the purchase order. In case of any damage/Broken/Expired items found, the item(s) should be replaced **within 15 days** at IIT Tirupati. The bidder has to make own arrangement for unloading and positioning of items at the desired location of IIT Tirupati.

18. PERFORMANCE SECURITY DETAILS

18.1 The successful tenderer will have to deposit the performance security valid for **63 Months** in the form of DD / TDR / FDR / Bank Guarantee @**10% of the total order value** at the earliest from the date of issue of the award letter. No interest will be paid by IIT Tirupati on the deposit.

18.2 Performance Security will be refunded to the supplier, after it duly performs and completes the contract/warranty period in all respects.

18.3 Performance Security will be forfeited if the firm fails to perform/abide by any of the terms or conditions of the contract.

18.4 In case, the firm fails to execute the order successfully, within specified delivery period, the same goods/items will be procured from open market and the difference of cost, if any, will be recovered from Performance Security or from pending bill(s) of the defaulting firm or from both in case the recoverable amount exceeds the amount of Performance Security.

19. TERMS AND CONDITIONS

19.1 Termination for Insolvency

- I) The IIT Tirupati may at any time terminate the Contract by giving a written notice to the awarding firm, without compensation to the firm, if the firm becomes bankrupt or otherwise insolvent as declared by the competent Court, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the department.
- II) IIT Tirupati and/or the firm are entitled to withdraw/cancel the rate contract by serving one-month notice on each other. However, once a purchase order

is placed on the supplier for supply of a definite quantity in terms of the rate contract during the validity of the rate contract, that purchase order becomes a valid and binding contract.

- III) The courts of Tirupati alone will have the jurisdiction to try any matter, dispute or reference between the parties arising out of this purchase. It is specifically agreed that no court outside and other than Tirupati Court shall have jurisdiction in the matter

19.2 Force Majeure

- I) Should any force majeure circumstances arise, each of the contracting parties be excused for the non-fulfilment or for the delayed fulfilment of any of its contractual obligations, if the affected party within 15 days of its occurrence informs in a written form the other party.
- II) Force Majeure shall mean fire, flood, natural disaster or other acts such as war, turmoil, sabotage, explosions, epidemics, quarantine restriction, strikes, and lockouts i.e. beyond the control of either party.

19.3 Arbitration

- I) All disputes of any kind arising out in connection with the executing the order shall be referred by either party (IIT TIRUPATI or the bidder) after issuance of 30 days' notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties. The venue for arbitration shall be IIT TIRUPATI India. The jurisdiction of the courts shall be Tirupati, Andhra Pradesh, India.

19.4 Other Conditions

- I) The bidder has to upload the relevant & readable files only as indicated in the tender documents. In case of any irrelevant or non-readable files, the bid may be rejected.
- II) IIT Tirupati will not be liable for any obligation or supplies made unless the Official Purchase Order has been placed by the Purchase Department.
- III) IIT Tirupati reserves the right to accept or reject any or all the tenders in part or in full or may cancel the tender, without assigning any reason thereof.
- IV) IIT Tirupati reserves the right to relax / amend / withdraw any of the terms and conditions contained in the Tender Document without assigning any reason thereof. Any inquiry after submission of the quotation will not be entertained.
- V) IIT Tirupati reserves the right to modify/change/delete/add any further terms and conditions prior to issue of purchase order.
- VI) In case the bidders/successful bidder(s) are found in breach of any condition(s) at any stage of the tender, Performance Security shall be forfeited.
- VII) False declaration/documents will be in breach of the Code of Integrity under Rule 175(1) (h) of the General Financial Rules for which a bidder or its

successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

- VIII) Repeat Order: IIT Tirupati reserves the right to place repeat order up to 100% of the quantities within a period of 12 months from the date of successful completion of purchase order at the same rates and terms subject to the condition that there is no downward trend in prices.

To take care of any change in the requirement during the currency of the contract, a plus/minus option clause for 25 per cent is incorporated in the tender document, reserving purchaser's right to increase or decrease the quantity of the required goods up to that limit without any change in the terms and conditions and prices quoted by the tenderers.

- IX) Conditional tenders will not be considered in any case.
- X) In case of doubt in material, the expenditure on testing of equipment will be borne by the tenderer.
- XI) Institute reserve the right to increase/decrease the order quantity at any period of times during the validity of the contract.
- XII) IIT Tirupati may issue amendment/corrigendum to tender documents before due date of submission of bid. Any amendment/corrigendum to the tender document if any, issued by IIT Tirupati will be posted on CPP Portal. For the bidders, submitting bids on downloaded tender document, it is 'bidders' responsibility to check for any amendment/corrigendum on the website of IIT Tirupati or check for the same CPP Portal before submitting their duly completed bids.**

UNDERTAKING

To
The Registrar,
 Indian Institute of Technology Tirupati
 Yerpedu – Venkatagiri Road, Yerpedu Post,
 Tirupati District, Andhra Pradesh.
 Pincode - 517619.

Tender No. IITT/CY/2023-24/12 dated 02.08.2023.

Name of the Tender/Supply: Notice Inviting Tender for Supply, installation, testing and Commissioning of Two Channel 400 MHz NMR Spectrometer with accessories.

Sir,

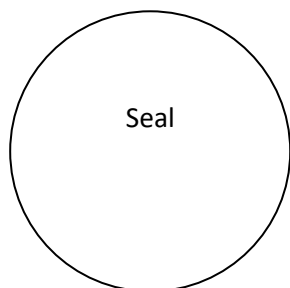
I /we hereby submit our bid for Supply, installation, testing and Commissioning of Two Channel 400 MHz NMR Spectrometer with accessories.

I/ We enclosed here with the following in favor of Indian Institute of Technology Tirupati towards Tender Fee.

| Particular | Amount | Payment Reference Details | Payment Date |
|----------------------------|--------|---------------------------|--------------|
| Tender Fee (Including Tax) | 2500/- | | |

- I / We hereby reconfirm and declare that I / We have carefully read, understood & complying the above referred tender document including instructions, terms & conditions, scope of work, schedule of quantities and all the contents stated therein. I / We also confirm that the rates quoted by me / us are inclusive of all taxes, duties etc., applicable as on date.
- I /we have gone through all terms and conditions of the tender document before submitting the same.

Date:
Place:



Authorized Signatory

Name:

Designation:

Contact No :

On Company Letter Head

Bid Security Declaration

To
The Registrar,
Indian Institute of Technology Tirupati
Yerpedu – Venkatagiri Road, Yerpedu Post,
Tirupati District, Andhra Pradesh.
Pincode - 517619.

Tender No. IITT/CY/2023-24/12 dated 02.08.2023.

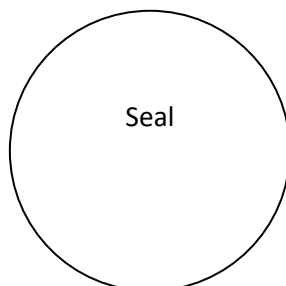
Name of the Tender/Supply: Notice Inviting Tender for Supply, installation, testing and Commissioning of Two Channel 400 MHz NMR Spectrometer with accessories.

Sir,

We, the undersigned declare that

1. We understood that, according to the tender conditions, bids must be supported by a Bid Security Declaration.
2. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Institute for the period of **3 years** starting from the bid closing date, if we are in breach of our obligation(s) under the bid conditions, because we;
 - (a) have withdrawn our bid during the period of bid validity specified in the letter of bid; or
 - (b) having been notified of the acceptance of our bid by the institute during the period of bid validity, (i) fail or refuse to execute the contract, if required, or (ii) fail or refuse to furnish the performance security, in accordance with the tender conditions.

Date:
Place:



Authorized Signatory

Name:

Designation:

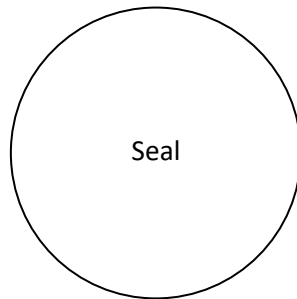
Contact No :

**CERTIFICATE
(To be provided on letter head of the firm)**

I hereby certify that the above firm is not in the active debarred list by IIT Tirupati/ Ministry of Education [MoE] nor is any criminal case registered / pending against the firm or its owner / partners anywhere in India.

I also certify that the above information is true and correct in every respect and in any case at a later date it is found that any details provided above are incorrect, any contract given to the above firm may be summarily terminated and the firm may be blacklisted.

Date:



Place:

Authorized Signatory

Name:

Designation:

Contact No.:

ANNEXURE – IV

a) Experience: (As per tender Clause No.4.2 (III))

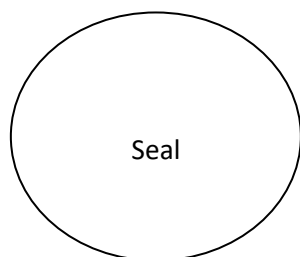
| Year | Name of the Item with Specification (Technical specification brochure to be attached) | Purchase Order No. & Date (Copy of the Orders to be attached) | Date of successfully completion of SITC of ordered Item (copy of report from client to be attached) | Contact Details of Client |
|-------------|--|--|--|----------------------------------|
| 2018-19 | | | | |
| 2019-20 | | | | |
| 2020-21 | | | | |
| 2021-22 | | | | |

b) Past Performance: (As per tender Clause No.4.2 (III))

| Year | Purchase Order No. & Date (Copy of the Orders to be attached) | Quantity | Date of successfully completion of SITC of ordered Item (copy of report from client to be attached) | Whether supplied item(s) is in successful operation for at least one year (Certificate from client to be attached) | Contact Details of Client [email and phone no] |
|-------------|--|-----------------|--|---|---|
| 2018-19 | | | | | |
| 2019-20 | | | | | |
| 2020-21 | | | | | |
| 2021-22 | | | | | |

Date :

Place :



Authorized Signatory

Name:

Designation:

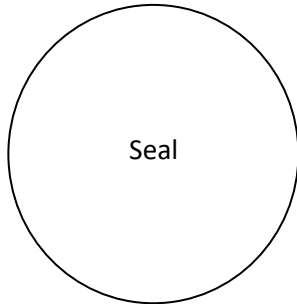
Contact No.:

ANNEXURE – V

Annual Turnover and Profit Details:

| Evaluation Criteria | | | | Remark | Specific page no. where the proof of documents are enclosed |
|---|-----------------------|------------------------|-----------------------------|---|---|
| Bidder's Annual Turnover and Profit for last three financial years | Financial Year | Turnover in Rs. | Annual Profit in Rs. | - | |
| | 2021-22 | | | Supporting Documents are to be attached along with the Annexure-V [i.e. Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted] | |
| | 2020-21 | | | | |
| | 2019-20 | | | | |
| | 2018-19 | | | | |

Date:



Place:

Authorized Signatory:

Name:

Designation:

Contact No.:

Format for Self-Declaration under preference to make in India order

In line with Government Public Procurement Order No. P-45021/2/2017-BE-II date. 15.06.2017 & P-45021/2/2017-PP (BE-II) dated: 04 June 2020. We hereby certify that we M/s. _____ (supplier name) are **CLASS-I/Class-II/Non-local (Please specify clearly)** supplier for the material against Enquiry No. IITT/CY/2023-24/12 dated 02.08.2023.

Details of location at which local value addition will be made as follows: (Complete address to be mentioned)

Percentage of Local Content: _____

(As per the OM of Department of Promotion for Industry and Internal Trade No. P-45021/102/2019-BE-II-Part(1) dated: 04.03.2021. The bidders can't claim themselves as Class-I local suppliers/Class-II local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition)

We also understand, false declarations will be in breach of the Code of Integrity under rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

Seal and signature of Supplier

Date :

Place :

Technical Compliance statement

| Description | Complied (Yes/No) | Remarks, if any | Offered Make & Model | % of Local Content as per Tender Clause No.4.2(V) | Country of Origin |
|---|-------------------|-----------------|----------------------|---|-------------------|
| <p><u>Part A: Main Component:</u></p> <p>Technical Specifications:</p> <p>1. MAGNET:</p> <ul style="list-style-type: none"> ➤ Latest technology based actively shielded superconducting magnet (9.4 Tesla) with operational frequency of 400 MHz for 1H NMR. ➤ Bore diameter: 54 mm (standard bore). Specify manufacturer of magnet. ➤ Shortest possible 5G fringe field (radial from the center of the magnet 0.5 m or less, and axial from the center of the magnet 1.0 m or less) with advanced shielding technology. ➤ Expected field drift 4 Hz/h or less. ➤ Anti-vibration feet pad for dampening the floor vibrations (capable of damping frequencies up to 14 Hz or more). ➤ Deuterium lock channel should be compatible with gradients and automated shimming hardware. ➤ Long Liquid Helium hold time: a minimum of 365 days or more, refill volume should be specified. ➤ Long Liquid Nitrogen hold time of at least 14 days. ➤ Digital Liquid Helium and liquid nitrogen level meters with alarm function for low levels. ➤ Cryogen cooled shim system in addition to room-temperature shims for optimal line shape (please mention the number of cryogen-cooled and room-temperature shim coils); automated gradient shimming capability with associated accessories (software/hardware). ➤ Pneumatic sample load/spin/eject system. | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| <ul style="list-style-type: none"> ➤ Automated and manual shimming capability with associated accessories (Software/Hardware) | | | | | |
| <p>2. SPECTROMETER CONSOLE AND ELECTRONICS:</p> | | | | | |
| <ul style="list-style-type: none"> ➤ Advanced feature based Two broadband frequency generation independent identical RF channels with two RF Transmitter and Two Receivers (full frequency range generation) for multinuclear experiments. ➤ Two channel amplifier system with linear broad band amplifiers with minimum power levels of 450 W or higher for ^1H and 450 W or higher for X (^{19}F, ^{13}C, ^{15}N, ^{11}B, ^{31}P to ^{109}Ag, ^{77}Se, ^{29}Si, ^{75}As, $^{111}\text{Cd}/^{113}\text{Cd}$, ^{119}Sn, ^{207}Pb, ^{199}Hg, ^{75}As, and other nuclei) respectively for double resonance liquid and solid-state NMR experiments. ➤ Digital lock channel. ➤ Single and multi-receiver capability for simultaneous acquisition on multiple channels. ➤ Gradient unit: Z-shielded gradient having 45G/cm or better with ability to perform gradient spectroscopy. ➤ Wave form generator for all channels for pulse shaping (please specify bits and total memory of the shape card). ➤ Temperature control unit: Ability to perform variable temperature experiments from $-100\text{ }^\circ\text{C}$ or Lower to $+150\text{ }^\circ\text{C}$ or above ➤ Low temperature liquid Nitrogen based accessory to control the sample temperature from ambient to $-110\text{ }^\circ\text{C}$ ($\pm 20\text{ }^\circ\text{C}$) in addition with the electric cooled temperature controller. Low temperature unit should include suitable liquid nitrogen dewar, evaporator and transfer line (tube) of sufficient length (5 miter). All support equipment for cryostat (e.g., liquid He and liquid N_2 transfer line etc.) should be provided. Two extra tubes for liquid nitrogen transfer should be provided. ➤ Programmable System Power down through software. | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| <ul style="list-style-type: none"> ➤ Real time (online) reaction monitoring unit (Syringe pump and capillaries) along with temperature-controlled lines (-0°C to 80°C) with pressure controlled up to 10 bar and the software to control the unit. ➤ The instrument must be well equipped to carry out high-resolution Solid-state NMR experiments such as 1D, 2D NMR with various combination of selected nuclei, having capabilities for most up-to-date multidimensional NMR experiments. An efficient shimming system to obtain excellent line shape in solid-state configuration is required ➤ Fully automated pneumatic unit for magic-angle spinning experiments that includes spinning rate stabilization. ➤ Suitable transfer system for solids probe ➤ 1000 Nos of high quality 5mm, 7" NMR tubes for routine sample recording. ➤ 20 nos of 3 mm – 4 mm rotors plus caps along with accessories such as cap removal, sample filling assembly etc ➤ Automatic sample Changer for 60 samples with 60 samples holders. Sample holders should have the capability to perform variable temperature experiments from -100 °C or Lower to +150 °C or above ➤ Suitable 5 mm spinners for low and high-temperature NMR measurements: -30 °C to +50 °C (Teflon spinners – 10 nos). ➤ Set of standard test samples (for line shape, sensitivity and other tests) for multinuclear solution NMR. ➤ Non-magnetic tool kit, essential spare parts like fuses etc. <p>Liquids Probe (Two Numbers):</p> <ul style="list-style-type: none"> ➤ Two numbers each of latest, high resolution 5 mm multinuclear broadband, double resonance with an actively shielded single axis Z gradient, optimized for observation of ¹H with ¹⁹F decoupling or ¹⁹F observe with 1H decoupling and for observation of nuclei in the range of ¹⁹F, ¹³C, ¹⁵N, | | | | | |
|---|--|--|--|--|--|

^{11}B , ^{17}O , ^{31}P to ^{109}Ag , ^{75}As , ^{77}Se , ^{199}Hg , etc. with ^1H decoupling. Ability to perform 2D $^1\text{H}/^{19}\text{F}$ experiments.

- High S/N ratio. ^1H sensitivity $\geq 550:1$; ^{19}F sensitivity (^1H dec) $\geq 550:1$; ^{13}C sensitivity $\geq 220:1$; ^{13}C sensitivity (^1H dec) $\geq 250:1$ (40ppm noise); ^{31}P sensitivity $\geq 200:1$; ^{15}N sensitivity $\geq 30:1$; ^{199}Hg , ^{77}Se , ^{75}As , and other nuclei.

- Provide the latest and high-resolution probe for ^{77}Se , ^{29}Si , ^{75}As , $^{111}\text{Cd}/^{113}\text{Cd}$, ^{119}Sn , ^{207}Pb , ^{199}Hg , and other nuclei
- Automated tuning and matching capability.
- Temperature range: $-100\text{ }^\circ\text{C}$ or Lower to $+150\text{ }^\circ\text{C}$ or above.
- Compatibility of the probe with 3 mm NMR tubes or its likes.
- Maximum gradient strength (45 G/cm or higher).
- Gradient recovery times (not more than 100 μs).
- Test certificate with standard, mention the sensitivity for the sample measured.

Solids Probe:

- Solid-state CP MAS broadband Probe of 4mm diameter with MAS $\geq 12\text{ kHz}$ spinning speed. Nuclei ^1H , ^2H , ^7Li , ^{13}C , ^{15}N to ^{31}P , ^{77}Se , ^{29}Si , ^{75}As , $^{111}\text{Cd}/^{113}\text{Cd}$, ^{119}Sn , ^{207}Pb , ^{199}Hg , and other nuclei.
- Please specify the following
 - Configuration of the coils.
 - X-channel should be tunable from ^{31}P (161MHz) to ^{15}N (40MHz).
 - Best resolution and line-shape using the standard sample.
 - Best Signal-to-noise (S/N) ratio values for each nucleus of the probe measured using standard samples (Please provide data and mention the sample used).
 - ^1H & ^{19}F high power decoupling for up to 50ms.
 - Solid-state NMR measurement Temperature range $-80\text{ }^\circ\text{C}$ to $+200\text{ }^\circ\text{C}$ along with required accessories.
 - Auto-tuning capability for both X-nuclei and ^1H .

- Automated magic angle adjustment capability.

3. SOFTWARE and HARDWARE:

SOFTWARE:

- Most comprehensive latest NMR software to run up-to-date hetero-nuclear multi-dimensional NMR experiments including latest experiments for the reconstruction of multi-dimensional NMR study, for control, data acquisition and processing, and automatic recording of multiple experiments. The package should include all the latest pulse sequences for multi-dimensional & multi-receive NMR experiments available with the vendor. The licensed software modules should include tools for Structure Analysis, Integration and Deconvolution of 1D, 2D (HSQC, TOCSY, COSY, HETCOR, NOESY, HMBC, DOSY etc.) and 3D spectra, NMR simulation, Multiplet analysis, Relaxation data analysis, etc. Gradient shim program to do DOSY experiments, and modules to carry out 2D and 3D experiments. Automatic setup with acquisition, analysis and quantification of the NMR samples. High-end graphic tools for plotting one- and multiple-dimension spectra, for drawing structure and for making presentations on NMR experiment. Structure elucidation software. Auto pulse calibrate software. Complete set of all manuals (service and operational) should be provided.
- Any software upgrade (pulse sequence and processing) or new software (pulse sequence and processing) that are released during warranty periods should be given (& install in the system) to the user free of cost.
- Unlimited number of licenses should be provided for the software.

HARDWARE:

- Suitable branded high-end workstations (3 numbers) each with intel core i7, 11th generation or better, windows 10

professional or better, 64 GB RAM DDR4, 5TB X 2 HDD (in each workstation), 1TB SSD for data acquisition and processing with latest configuration. A minimum of 3 years warranty should be provided for the entire workstations including the LED monitors. Additional, 3 branded, latest 24-inch curved LED screen display should be provided along with work stations. The workstation should be configured for easy transfer of files in LAN.

4. WARRANTY:

Comprehensive on-site warranty for 5 years on the complete instrument and the third-party items including air-compressor (mentioned in PART B) with standard vendor warranty, and the same must be specifically mentioned in the quotation by the vendor or principal. In case the vendor provides the warranty, the principal should certify (authenticate) the extended warranty.

The comprehensive warranty should cover the following:

- Free maintenance and service.
- Free replacements of parts.
- In case of any problem in the units/parts, accessories, the bidder should provide and install spares to run the spectrometer until it gets repaired/replaced. The required spares should be shipped to the site without any cost.
- In case the machine is down during the warranty period, the number of days accordingly should be compensated by providing an additional extended warranty free of cost.
- An adequate number of engineer visits (minimum 2) every year should be covered during the warranty period.

- Third-party/local items supplied along with the instrument should have a standard warranty period by the vendor
- The warranty period should start from the successful installation and commissioning of the spectrometer.

Warranty includes: All parts and labor; proper schedule of regular maintenance visits and emergency visits; regular upgrades to software during the warranty period. Ensure availability of spare parts and consumables for at least 10 years for the installed spectrometer model from the date of installation.

5. Onsite Training:

Responsibility of on-site technical, operational and maintenance support for 24 x 7 operation for the entire warranty period for free of cost.

The full capabilities of the system need to be demonstrated to the compete satisfaction and specify the pre-installation requirement.

Company should have dedicated application specialist with a proven track record to provide on-site training.

Training to be divided in parts – three weeks training at the time of installation and three weeks training after three months of successful installation of the system at the user place. All the quoted specifications must be experimentally proved during installation and training.

6. Refilling of Liquid Helium for the Period of 7 Years:

- The vendor should supply and refill liquid helium for **5 years** from date of installation to keep the superconducting magnet active. No excuse will be entertained if the supply is prohibited due to any market issue.
- The scope of the supply includes cost of refilling of liquid Helium for the period of **7 years** (5 years warranty period + **2 years** AMC period)

7. Terms & Conditions

Experience: The vendor should be an authorized provider of sophisticated high-precision 400 MHz NMR for the past 5 Years or more with 3 or more past installations of similar or better configuration systems in Nationally funded institutions like IIT's, IISERs, IISc etc. The purchase orders and performance/service satisfactory certificate of the same must be submitted along with the tender.

The users list for the quoted and similar quoted models in India should be provided along with the appropriate certificates from the user for the last five years justifying the stability, case of operation and maintenance requirement so that we have the option to choose the best system in terms of performance and not by mere specifications alone.

All Items will be considered for finding the L1. To qualify in the technical bidding process, it is mandatory for the vendors to give a proper quote for all the items. The responsibility of providing this information and adhering to this condition lies with the vendor only. All other terms and conditions of Institute & GOI as per rules will apply. The Institute reserves all rights.

2. Part B: Accessories and Miscellaneous Items:

- a) ISO-9001 certified oil-free scroll air-compressors complete with dryer and all required filters, 5HP or more motors and proper ratings and specifications and one sufficiently large buffer tank to operate solids and liquid 400MHz system.
- b) Provide air pressure storage tank with water drain provision to operate an auto sampler, to lift the sample tube and also for spinning.

- c) Required amount of liquid helium for installation to be provided by the NMR vendor. In case of magnet quenching during installation, the NMR vendor will take full responsibility for recharge of magnet and provide the cryogenics required for re-installation at no additional cost.
- d) The vendor should supply and refill liquid helium for 5 years from date of installation to keep the superconducting magnet active. No excuse will be entertained if the supply is prohibited due to any market issue.
- e) The following Deuterated Solvents must be supplied along with the equipment.
- 20 nos X 100 mL sure seal deuterated CDCl_3 , 5 nos X 100 mL acrosealed bottle of D_2O , 10 nos X 25 mL CD_2Cl_2 should be supplied.
- 10 nos X 10 mL sure seal deuterated solvents of CD_3CN , CD_3COCD_3 , CD_3OD , D_8 -THF, D_6 -Benzene, D_5 -Pyridine, D_8 -Toluene, and D_4 -Acetic Acid should be supplied. 40 nos X 10 mL deuterated solvents of DMSO-D_6 and D_2O should be supplied as ampules (each 10 mL bottle).
- 2 nos X 5 mL D_4 -1,2-Dichloroethane, D_2 -1,1,2,2-Tetrachloroethane D_4 -1,2-Dichlorobenzene, and Ethanol- D_6 (anhydrous) should be supplied.
- 5 nos X 5 mL 2-propanol- D_8 , 2 nos X 25 mL Bromobenzene- D_5 , 2 nos X 10 mL Cyclohexane- D_{12} , 5 nos X 5 mL DMF- D_7 and 2 nos X 10 mL Trifluoroacetic acid- D should be supplied.
- f) 10 kVA UPS with one-hour battery backup – 1 no.
- g) 1 No of Liquid nitrogen containers of 200 - 250 litres storage capacity along with transfer line and pressure gauge, appropriate length of corrugated plastic tubing with silicon tubing to fit to nitrogen inlet ports, and one

| | | | | | |
|--|--|--|--|--|--|
| <p>trolley for transportation. 3 Nos of additional liquid nitrogen containers of minimum ~50 litres capacity.</p> <p>h) One high-end multi-functional (auto-duplex colour printing laser printer), compatible for A3, A5 and A4 size printing papers (. Additionally, one compatible high-end multi-functional (auto-duplex B/W printing laser printer).</p> <p>i) 4 No of Cryogenic gloves for filling.</p> <p>j) Specify pre-installation requirement including minimum ceiling height, room size etc.</p> <p>Warranty: Comprehensive on-site warranty for 5 years on the complete instrument and the third-party items including air-compressor (mentioned in PART B) with standard vendor warranty, and the same must be specifically mentioned in the quotation by the vendor or principal from the date of acceptance of material by IIT. In case the vendor provides the warranty, the principal should certify (authenticate) the extended warranty.</p> | | | | | |
| <p>3. Part-C: Annual Maintenance Contract (AMC):</p> <p>Two years of AMC after the completion of the initial 5-year comprehensive warranty must be quoted separately by the bidder.</p> <p>Appropriate documents must be attached along with the quotation in this regard. A certificate will be required from the original equipment manufacturer that the technical support, along with all essential spares, will be provided/made available for at least 5 years after the expiry of the initial 5 years standard warranty period and additional 2 years AMC should be provided.</p> <p><u>Note: The AMC scope should be clearly mentioned in the technical bid</u></p> | | | | | |

COMPANY DETAILS

| | | |
|---|-----------------------|--|
| Name of the bidder | | |
| Date of Incorporation / Establishment | | |
| PAN Number | | |
| GST Registration Number | | |
| Bidder's Bidding Capacity for the tendered items (As a Manufacturer/ Trader/ dealer / channel partner / system integrator, etc.) | | |
| Bank Details | Account Number | |
| | IFS Code | |
| | Bank Name | |
| | Branch Name | |
| Registered Office Address | | |
| Authorized Signatory Details (Company/Firm Authorization by the competent authority, to be attached) | Name | |
| | Designation | |
| | Email | |
| | Phone | |
| Details of Contact other than Authorized Signatory | Name | |
| | Designation | |
| | Email | |
| | Phone | |

Date:

Signature and Seal of the Tenderer:

Place:

Name in Block Letter:

Designation:

Contact no.

**PRICE REASONABILITY CUM FALL CLAUSE CERTIFICATE
(ON THE LETTER HEAD OF THE COMPANY)**

It is certified that the rate quoted against the IIT Tirupati tender numberdated _____for the supply, installation and commissioning of, is not more than the rates charged to any other Institutions, for similar supplies made by our firm, during past 1 year. If at any stage, it has been found that the quoted rate to IIT Tirupati is higher than the rates charged to other Institutions, then in such a situation / condition, IIT Tirupati shall have the right to take legal action against us, for recovery of excess rates.

Yours faithfully,

Authorized signatory of Bidder with Seal

Name.....

Designation.....

INTEGRITY PACT

This **INTEGRITY PACT** is made and executed at..... on this day of....., 2023

BETWEEN

The Registrar, Indian Institute of Technology Tirupati, an autonomous body of the Department of Higher Education, Ministry of Education, Govt, of India having its office located at Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, Andhra Pradesh - 517619 (hereinafter referred to as “**The Principal**” which terms or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the **First Part**;

And

M/s..... a company incorporated under the Companies Act,..... through its representative/authorized signatory (insert name and designation of the officer) vide resolution dated passed by the Board of Directors, having its office at(hereinafter referred to as “**The Bidder/Contractor**” which term or expression shall, unless excluded by or repugnant to the subject or context, mean and include its successor-in-office, administrators or permitted assignees) of the **Second Part**.

Preamble

The Principal intends to award, under laid down organizational procedures, contract/s for _____ The Principal values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness / transparency in its relations with its Bidders) and / or Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitors (IEMs) who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1 - Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-

- a. No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b. The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
- c. The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the IPC/PC Act, or if there is a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officer and in addition, can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

(1) The Bidder(s)/ Contractor(s) commit themselves to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commit themselves to observe the following principles during participation in the tender process and during the contract execution.

a. The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.

b. The Bidders(s)/ Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.

c. The Bidder(s)/ Contractor(s) will not commit any offense under the relevant IPC/PC Act; further the Bidders(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

d. The Bidder(s)/ Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly, the Bidder(s)/Contractors(s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further details as mentioned in the "Guidelines on Indian Agents of Foreign Suppliers" shall be disclosed by the Bidder(s)/Contractor(s). Further, as mentioned in the Guidelines all the payments made to the Indian agent/representative have to be in Indian Rupees only

e. The Bidder(s)/ Contractor(s) will, when presenting their bid, disclose any and all payments made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.

f. Bidder(s) /Contractor(s) who have signed the Integrity Pact shall not approach the Courts while representing the matter to IEMs and shall wait for their decision in the matter.

(2) The Bidders)/ Contractors) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/Contractor(s), before award or during execution has committed a transgression through a violation of Section 2, above or in any other form such as to put their reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/Contractor(s) from the tender process or take action as per the procedure mentioned in the "Guidelines on Banning of business dealings.

Section 4 - Compensation for Damages

(1) If the Principal has disqualified the Bidder(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value or the amount equivalent to Performance Bank Guarantee.

Section 5 - Previous transgression

(1) The Bidder declares that no previous transgressions occurred in the last three years with any other Company in any country conforming to the anti-corruption approach or with any Public Sector Enterprise in India that could justify his exclusion from the tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or action can be taken as per the procedure mentioned in "Guidelines on Banning of business dealings".

Section 6 - Equal treatment of all Bidders / Contractors / Subcontractors

(1) In the case of Sub-contracting, the Principal Contractor shall take the responsibility for the adoption of the Integrity Pact by the Sub-contractor.

(2) The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.

(3) The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate this provisions.

Section 7 - Criminal charges against violating Bidder(s) / Contractors) / Subcontractor(s)

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the same to the Chief Vigilance Officer.

Section 8 - Independent External Monitor

(1) The Principal appoints a competent and credible Independent External Monitor for this Pact after approval by Central Vigilance Commission. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.

(2) The Monitor is not subject to instructions by the representatives of the parties and performs his/her functions neutrally and independently. The Monitor would have access to all Contract documents, whenever required. It will be obligatory for him/her to treat the information and documents of the Bidders/Contractors as confidential. He/she reports to Secretary, MoE.

(3) The Bidder(s)/Contractor(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his/her request and demonstration of a valid interest,

unrestricted and unconditional access to their project documentation. The same is applicable to Sub-contractors.

(4) The Monitor is under contractual obligation to treat the information and documents of the Bidders)/ Contractor(s)/ Sub-contractor(s) with confidentiality. The Monitor has also signed declarations on 'Non-Disclosure of Confidential Information and of 'Absence of Conflict of Interest'. In case of any conflict of interest arising at a later date, the IEM shall inform Secretary, D/o Higher Education.

(5) The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

(6) As soon as the Monitor notices, or believes to notice, a violation of this agreement, he/she will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.

(7) The Monitor will submit a written report to the Secretary, D/o Higher Education within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

(8) If the Monitor has reported to the Secretary, D/o Higher Education, a substantiated suspicion of an offence under relevant I PC/ PC Act, and the Secretary, MoE has not, within the reasonable time taken visible action to proceed against such offence or reported it to the Chief Vigilance Officer, the Monitor may also transmit this information directly to the Central Vigilance Commissioner.

(9) The word '**Monitor**' would include both singular and plural.

Section 9 - Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the contract, and for all other Bidders 6 months after the contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealing.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Secretary, D/o Higher Education.

Section 10 - Other provisions

(1) This agreement is subject to Indian Law. The place of performance and jurisdiction is the Office of the Principal, i.e. New Delhi.

(2) Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

(3) If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.

(4) Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement with their original intentions.

(5) Issues like Warranty / Guarantee etc. shall be outside the purview of IEMs.

(6) In the event of any contradiction between the Integrity Pact and its Annexure, the Clause in the Integrity Pact will prevail.

(7) The actions stipulated in this Integrity Pact are without prejudice to any other legal action(s) that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

IN WITNESS WHEREOF, the parties hereunto set their hands and seals and executed this INTEGRITY PACT as of the day/month/year first above written:

For and on behalf of

**THE REGISTRAR,
Indian Institute Technology Tirupati (First Party)**

SIGNED, SEALED, AND DELIVERED by

Name:

Designation:.....

Address:.....

Authorized Signatory

For and on behalf of

M/s.....(Second Party)

SIGNED, SEALED AND DELIVERED by

Name_____

Designation:.....

Address:.....

Representative/authorized signatory

Vide resolution dated..... passed by the Board of Directors

In the presence of Witness:

1.

2.

CHECKLIST FOR BIDDERS TO BE SUBMITTED IN DULY FILLED AND SIGNED

| Tender Clause No. | Name of the Document | Document Particulars | Submitted (Yes/No) | Page No. of the attached Document |
|-------------------|--|----------------------|--------------------|-----------------------------------|
| 3.1 | Tender Fee | | | |
| 3.4 | Bid security Declaration (Annexure-II) | | | |
| 3.3 | Valid Tender Fee / EMD Exemption Certificate | | | |
| 4.1. | PAN Card | | | |
| | Incorporation/Registration certificate of company | | | |
| | GST Registration copy | | | |
| 4.2.(I) | Tender acceptance letter (Annexure I) | | | |
| 4.2.(II) | Non-Blacklisting undertaking (Annexure III) | | | |
| 4.2.(III) | The bidder/OEM should have supplied similar system during past three financial years i.e. during 2018-19 to 2020-21 or 2019-20 to 2021-22 in India to CFTI Institutions like IITs, IISERs, IISc etc. Vendor should provide satisfactory installation certificates with product details as proof with customer contacts email and phone number as per the Annexure-IV . | | | |
| 4.2.(IV) | The Annual Turnover should be at least Rs. 5 crores and be profitable during each of the previous three financial years i.e. during 2018-19 to 2020-21 or 2019-20 to 2021-22 . Audited financial Statements or Financial Statements showing turnover duly signed by a Chartered Accountant are to be submitted as per the Annexure-V . | | | |
| 4.2.(V) | In case the bidder is a <u>Class-I / Class-II/ Non-Local Supplier</u> in line with the Public Procurement (Preference to Make in India) Order 2017 No. P-45021/2/2017-PP (BE-II) dated 04 Jun 2020 as amended from time to time. A Self-Declaration Certificate regarding “Class-I/Class-II/Non local Supplier” for the tendered items as per the Annexure-VI is to be submitted. | | | |
| 4.2.(VI) | The bidder should be OEM or OEM authorized Dealers / Channel partners / Distributors of reputed brand having authorization for sales and after sales support. Valid OEM authorization letter is required to participate in this tender. | | | |
| 4.2.(VII) | Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder registered with the competent authority. The concerned bidder(s) are required to attach the relevant valid Registration Certificate along with the bid for consideration. | | | |

| | | | | |
|-----------|---|--|--|--|
| 4.3 | Technical Compliance Statement : Annexure-VII. | | | |
| 13.1 (I) | Purchase Preference: (if applicable) Micro and Small Enterprises (MSEs): | | | |
| 13.2 (II) | Purchase Preference: Make in India | | | |
| 14 | Payment Term: Within 30 days after SITC for Indian bidders & 100 % (90+10) through irrevocable letter of credit for foreign bidders. | | | |
| 2.11 | Warranty: Minimum 5 years Onsite warranty by OEM/ OEM Authorised partner from the date of acceptance of material by IIT. AMC: Additional 2 years of AMC after the completion of initial 5-year comprehensive warranty must be quoted separately by the bidder. | | | |
| 2.15 | Spares & Service support availability: Minimum 10 years. | | | |
| 17 | Delivery: FOR IIT Tirupati within 30 weeks. | | | |
| 10 | Bid validity: 120 days from the date of opening of the tender | | | |
| | Company details : Annexure-VIII | | | |
| | Price reasonability cum Fall clause Certificate: Annexure-IX | | | |
| | Integrity pact: Annexure-X | | | |
| | Purchase Order to be placed on: | | | |

Note:

- 1) **Submission of tender without the above mentioned documents will lead to rejection/disqualification of the tender.**
- 2) **It is mandatory for the bidder to assign page numbers to the tender documents and the same has to be mentioned in the above checklist.**
- 3) **L1 shall be arrived based on the quote offered for equipment (Part-A), Accessories and AMC (Part-B & C) will not be considered for L1 evaluation.**
- 4) **AMC contract will be issued after completion of standard warranty of five years.**
- 5) **The technical bid should contain unpriced bill of material with quantities of each line item.**

Signature of the bidder with stamp