

**Indian Institute of Information Technology,
Design and Manufacturing, Kurnool
(IIITDM Kancheepuram Campus)
Chennai – 600 127**

Tender Document

For

**Supply and Installation of
Current Probe, High Frequency Current Probes, LCR Meter
and Spectrum Analyser**

Item	:	Supply and Installation of Current Probe, High Frequency Current Probes, LCR Meter and Spectrum Analyser (Specification and Quantity enclosed as Annexure)
Tender Enquiry No	:	IIITKL/18-19/S&P/LCR & Spectrum/006 Dt.09.04.2018
EMD	:	Earnest Money Deposit (EMD) for Rs.20,000/- (Rupees Twenty Thousand Only) in the form of Demand Draft drawn in favour of "IIIT Kurnool" payable at Chennai.
Submission of Offer	:	<u>Two Bid System:</u> Two bid system will be followed in this tender. In this system the bidder must submit his offer in two separate sealed envelopes . Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately and clearly marked as "Envelope No: 1 – Technical Bid" and "Envelope No: 2 – Commercial Bid" respectively. EMD should be placed in the Technical Bid. This two separate sealed envelopes should be placed in single envelope superscribing the tender No and description of the item.
Place of Submission Bid	:	The Mentor Director Indian Institute of Information Technology, Design and Manufacturing Kurnool IIITDM Kancheepuram campus Off Vandalur – Kelambakkam Road, Melakkottaiyur, Chennai – 600 127.
Due Date (For submission of bids)	:	02.00 PM 07.05.2018 (any bid received after the due date and time by any means will be summarily rejected)
Opening of Technical Bid	:	04:00 PM, 07.05.2018
Delivery Period	:	06 weeks from the date of Purchase Order

Important :

All communications are to be addressed to in the name of Mentor Director, IIITDM Kurnool only and not in the name of any officer and mails has to be sent to official purchase email id purchase@iiitk.ac.in

Terms and Conditions

1. The Bidders are requested to give detailed tender in two bid format.
Envelope-I : Technical Bid
Envelope-II : Commercial Bid
2. The bidder has to accept all terms and conditions of the Institute and conditional offers will not be accepted.
3. The tender document can be downloaded from the IIITDM Kurnool website www.iiitdmkl.ac.in at free of cost. The duly filled tenders should be submitted to The Mentor Director, Indian Institute of Information Technology, Design and Manufacturing, Kurnool, IIITDM Kancheepuram Campus, Off Vandalur – Kelambakkam Road, Melakkottaiyur, Chennai – 600 127 **on or before due date 02.00 PM, 07.05.2018.** Extension of due date will not be entertained.
4. Tenders which are submitted without following the two bid offer system will summarily be rejected.
5. **Envelope No-1 : Technical Bid**
 - i) EMD for Rs.20,000/- (Rupees Twenty Thousand only) in the form of Demand Draft drawn in favour of **“IIIT Kurnool” payable at Chennai.** (The EMD without interest shall be returned to the unsuccessful bidders after finalization of the tender).
 - ii) The firms registered and having valid NSIC Certificate are exempt from submission of EMD.
 - iii) The leaflet / catalogue of the product quoted.
 - iv) The copies of purchase orders received from Industry / Educational / Research Institution etc.
 - v) Bids should have a validity of **60 days.**
 - vi) The technical offer **should not contain any price information.**
6. **Envelope No-2 : Commercial Bid**

This should contain only the price information along with commercial terms and conditions.
7. **Opening of Technical Bids**

The technical bids will be opened on the scheduled date in the presence of the bidders or their authorized representatives who choose to attend the technical bid opening.
8. **Technical Evaluation**
 - i) All the technical aspects of the bids received will be evaluated for suitability and specification. If required, the Institute may seek additional clarification from the bidders.

- ii) The technical recommendation shall be final and binding on all the parties.
- iii) The technically qualified firms will be intimated about Price Bid opening by email.

9. **Opening of Commercial Bids**

The Institute will open commercial bids of only the shortlisted bidders in technical evaluation in the presence of the bidders or their authorized representatives who choose to attend the commercial bid opening. The representatives of shortlisted firms only will be allowed for commercial bid opening.

10. **Delivery Period / Timelines**

The deliveries and installation must be completed **within 06 weeks** from the date of purchase order. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet this expectation, as this is linked to student's admission.

11. **Locations for the supply / services**

The bidders may note that the items covered by this document is required to be supplied and installed at

**IIITDM Kurnool,
Jagannathagattu,
Near Pullareddy Engineering College
Dinnedavarapadu village,
Kurnool, Kurnool District
Andhra Pradesh.**

The Institute will not provide any accommodation / transportation for the engineers / representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the principal supplier / agent to make their own arrangements.

12. **Price**

- i) **The price should be quoted in INR only. GST payable extra.**
- ii) **The price quoted shall be for supply, delivery and Installation at specified room of IIITDM KURNOOL, Kurnool District, Andhra Pradesh.**
- iii) The packing, forwarding, freight, insurance and commissioning charges, if any extra may be quoted separately in commercial bid.

13. **Installation**

- i) Bidder shall be responsible for installation as applicable and for after sales service during the warranty and thereafter.
- ii) Installation to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the item at site.

14. **Warranty / Support**

- i) The items supplied shall carry the warranty as per the requirement mentioned in the technical specification.
- ii) The defects, if any, during the guarantee / warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any and should be borne by the beneficiary or his agent.
- iii) The bidder should arrange for technical support during warranty period within 24 Hours of lodging of complaint

15. **Indemnity**

The vendor shall indemnify, protect and save IIITDM Kurnool against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc., or such other statutory infringements in respect of all the items supplied by them.

16. **Freight and Insurance**

The items to be supplied will be insured by the vendor at his cost against all risks of loss or damage from the date of shipment till such time it is delivered at IIITDM Kurnool, Kurnool District, Andhra Pradesh.

17. **Payment**

100% payment after delivery, installation and acceptance by IIITDM on submission of Bank Guarantee for an equivalent value of 5% of PO value valid till warranty period plus 2 months.

The bidders may note that **other modes of payment like advance payment and payment against delivery is not considered.**

18. **Penalty for delayed services / LD**

- i) As time is the essence of the contract, delivery period mentioned in the purchase order should be strictly adhered to. Otherwise the LD clause will be applied / enforced.
- ii) If the supplier fails to supply, and fix the item as per specifications mentioned in the order within the due date, the supplier is liable to pay liquidated damages of 1% of order value for delay of every week or or part thereof subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.
- iii) IIITDM Kurnool reserves the right to cancel the order in case the delay is more than 04 weeks and the contractor is not eligible for any damage from the Institute and contractor will forfeit his claim for EMD.

19. Purchasers right to vary quantities at the time of award

IIITDM Kurnool reserves the right at the time of award of contract to increase or decrease the quantity of items specified in the schedule of requirements without any change in price or other terms and conditions.

20. Jurisdiction

The disputes, legal matters, court matters, if any, shall be subject to Courts in the district of Kurnool Jurisdiction only.

21. Force Majeure

- a) IIITDM Kurnool may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the contract, is the result of a force majeure.
- b) If the due date of submission of tender / Tender opening is declared a holiday for the Institute, the due date for submission of tender / Tender will be extended to same time on next working day.

22. Arbitration

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc., shall be referred by either party (IIITDM Kurnool or the bidder) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute and will be referred to the arbitrator to be nominated by The Mentor Director, IIITDM Kurnool. The Venue for arbitration shall be Chennai / Hyderabad, India.

23. Acceptance of the terms and conditions of tender document

The bidders has to accept all the terms and conditions of this tender document and it is made known that the bidders quoting for this tender had impliedly accepted the terms and conditions of this tender.

24. Interpretation of the clauses in the Tender Document

In case of any ambiguity / dispute in the interpretation of any of the clause in this tender document, interpretation of The Mentor Director, IIITDM Kurnool shall be final and binding on all parties. The IIITDM Kurnool reserves the right to accept the offer in full or in parts or reject the offer summarily or partly without assigning any reasons.

Sd/-
Mentor Director

Sl. No.	Description	Quantity
1.	<p><u>CURRENT PROBE:</u> (MAKE: KEYSIGHT, TEKTRONIX, LECROY, YOKOGAWA, Rohde-Schwarz)</p> <ul style="list-style-type: none"> • Measure AC/DC Current Non contact type(Like Tongue tester) • Frequency Bandwidth : DC to 100KHZ • Input current : 0 to 100 Amps (maximum) • Output current: 10mv/A, & 100 mv/A • Battery operated • Compatible with DSO & provide with BNC connector • Should possess Acceptable EMC & Environmental safety standards & Certification • Warranty: 3 years or above 	2 Nos.
2.	<p><u>HIGH FREQUENCY CURRENT PROBES:</u> (MAKE: KEYSIGHT, TEKTRONIX, LECROY, YOKOGAWA, Rohde-Schwarz)</p> <ul style="list-style-type: none"> • Frequency Bandwidth : DC to 100 MHz • Input current : 0 to 30 Amps & Above (Continuous maximum current) • Rise time : less than 3 ns • Output current: 100 mv/A • Maximum permissible circuit voltage : 300 V (insulated wire) 150 V (Bare conductor) • Compatible with DSO & provide with BNC connector • Degauss Button with offset Adjustment • Should possess Acceptable EMC & Environmental safety standards & Certification • Warranty: 3 years or above 	1 No.
3.	<p><u>LCR METER</u> (Make: Keysight Technologies, Tektronix, Rhode & Schwarz, Hioki, Teledyne Lecroy)</p> <p>Frequency Range: 20 Hz to 2 MHz</p> <p>Measurement Parameters</p> <ul style="list-style-type: none"> • Capacitance value to be measured with parallel-equivalent And series equivalent circuit model with D Dissipation factor, Q Quality factor (inverse of D) • Inductance value to be measured with parallel-equivalent And series equivalent circuit model with D Dissipation factor, Q Quality factor (inverse of D) • G Equivalent parallel conductance measured with parallel-equivalent circuit model • R value to be measured with parallel-equivalent And series equivalent circuit model • Rdc Direct-current resistance • Deviation measurement function: Deviation from reference value and percentage of deviation from reference value can be output as the result. • Equivalent circuits for measurement: Parallel, Series 	1 No.

	<ul style="list-style-type: none"> • Impedance range selection: Auto (auto range mode), manual (hold range mode) • Trigger mode: Internal trigger (INT), manual trigger (MAN), external trigger (EXT), GPIB trigger (BUS) • Trigger delay time: 0- 999s • Step delay time: 0-999s • Measurement Terminal: Four terminal pair • Test cable length: 0m, 1m, 2m, 4m • Test Signal: Voltage: 0 Vrms – 2.0 Vrms Current: 0 Arms – 20 mA Vrms • Output Impedance: 100 Ω • Connector: Four terminal pair, Banana Pair, Crocodile Clips, Tweezer, BNC-BNC connectors • Warranty: 3 years or above 	
<p>4.</p>	<p><u>SPECTRUM ANALYSER:</u> (MAKE: KEYSIGHT, TEKTRONIX, LECROY, YOKOGAWA, Rohde-Schwarz)</p> <p>Frequency range : 5 kHz to 3 GHz Frequency resolution : 1 Hz Resolution bandwidth : 1 Hz to 3 MHz Spectral purity SSB : 30 kHz < -92 dBc/Hz (typ) phase noise Carrier : 100 kHz < -103 dBc/Hz (typ) offset : 1 MHz < -125 dBc/Hz (typ) Internal VSWR bridge : 5 kHz ≤ f ≤ 1 GHz < 1.5 Sweep time : 100 μs to 100 s Displayed Average Noise : 1 MHz to 10 MHz < -147 dBm, typ. – 157 Level (norm. to 1 Hz) dBm Pre-amp ON : 10 MHz to 2 GHz < -158 dBm, typ. – 165 dBm 2 GHz to 3 GHz < -155 dBm, typ. – 163 dBm Third-order-intercept at : 1 GHz +7 dBm (meas.) 1 GHz (att.: 10dB) RF : 2.4 GHz +10 dBm (meas.) preamplifier = off Max. input power : +30 dBm Power consumption : 14 W (nom.) Receiver mode for EMI : Measurement modes: debugging : fixed frequency, frequency scan, channel scan. Detectors: max. peak, average, RMS, quasi-peak Connectors and Probes : Required Connectors and Probes,power supply cables Future Upgradability : Modulation Analysis, Wi-Fi Connection Support, Receiver Mode, Advanced measurements Warranty : 3 years or more</p>	<p>1 No.</p>