



**DEPARTMENT OF ELECTRICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY MADRAS, CHENNAI-36, INDIA**

Dr.R. Sarathi
Professor

Ref: EE1415/281/DSTX/RSAR

Date: 24.01.2017

DUE DATE: 1st Feb 2017, 3 PM.

Sub: Enquiry for supply of Digital Storage Oscilloscope- 1 No

Dear Sir/ Madam,

1. **Quotations** : Sealed quotations are invited under **TWO-BID SYSTEM** (i.e.) Technical bid and Financial bid in separate envelopes for the supply of above item as per the specification given below:

2. Specifications:

Specifications	Technical Specifications.
Bandwidth , sample rate, no. of channels, std. record length	350 MHz, 5 GS/s per channel, 4 analog channel with minimum 24M per channel
Input Resistance	1 M Ω \pm 1%, 50 Ω \pm 1%
Input Sensitivity	1 M Ω : 1 mV/div to 10 V/div 50 Ω : 1 mV/div to 1 V/div
DC Gain Accuracy	\pm 1.5%
Time base Range	12.5 ps/div to 1000 s/div
Compatible probes	Instrument Should be provided with Voltage probe per channel of 500MHz with capacitive loading of 5pf or minimum.
Waveform Capture Rate, segmented memory	>250,000 waveforms/sec, >1M max
Navigation and Search	Simultaneously search up to 8 types of events
Trigger Capabilities	Suite of advanced triggers, with standard Visual Trigger and Search
Low attenuation probes	Lower-attenuation probes, such as the TPP0502, can also improve signal-to-noise without compromising the performance and usability of passive probes
Visual Triggering	Standard, 8 regions, editable shapes
Trigger Jitter	1 ps < 100 fs (enhanced trigger on)
Operating Temperature	0°C to +50 °C
Warranty	1 Year
Upgradability	There should be an option available to upgrade the unit of adding 16 Digital channels.
Display Size	10.4 inch with touch screen
Operating System	Windows 7 Ultimate 64b Intel Core 2 Duo, \geq 2 GHz processor with \geq 4 GB system memory,
Storage	Solid State disk drive, \geq 480 GB
Customizable User Interface	MyScope should be available.

3. The Quotations duly sealed and superscribed on the envelope with the reference no. and due date, should be addressed to the undersigned so as to reach on or before the due date stipulated above.
4. **Validity:** The quotations should be valid for ninety days from the due date and the period of delivery required should also be clearly indicated.
5. **Samples:** Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. **Opening of the tender:** - The offer/Bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and it will be examined by a technical committee which will decide the suitability of the bid as per our specifications and requirements. The bidders will be invited for opening of Technical bids. In respect of opening of financial bid, those bidders who are technically qualified only will be called for.
7. **Technical Bid Opening:** The technical bid will be opened on 1st Feb 2017 at 4pm at the Conference room, Department of Electrical Engineering, IIT Madras and the financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.
8. **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing, insurance and delivery charges indicated separately for each item. The offer/bid should be exclusive of taxes and duties, which will be paid by the purchaser as applicable. However the percentage of tax & duties should be clearly indicated. The price should be quoted without custom duty and excise duty, since I.I.T. Madras is exempt from payment of excise duty, and the custom duty will be paid at concessional rate against duty exemption certificate.
In case of import supply, the price should be quoted on EX-WORKS/CIP basis indicating the mode of shipment.
9. Goods should not be supplied without an official purchase order.
10. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
11. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid. No prices should ever be included in the Technical bid.
12. Documentary proof for the claimed position and repetition accuracies must be obtained from the principals and submitted along with the relevant pages of the standards.
13. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
14. **Delivery Schedule:-** The tenderer should indicate clearly the time required for delivery of the item. In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
15. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
16. **Payment:-** No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).

17. **Advance Payment:-** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.
18. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, which is later.
19. **On-site Installation:** The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at site.
20. **Warranty/Guarantee:** The offer should clearly specify the warranty or guarantee period for the machinery/equipment. Any extended warranty offered for the same has to be mentioned separately. (For more details please refer our Technical Specifications).
21. **Late offer:** The offers received after the due date and time will not be considered. The Institute shall not be responsible for the late receipt of Tender on account of Postal, Courier or any other delay.
22. Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications
23. **Acceptance and Rejection:** I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours sincerely,



(R. SARATHI)