

Telephone: **044-22574466**

Extn:

Department of Electrical Engineering
Indian Institute of Technology, Madras
 I.I.T.P.O., MADRAS – 600 036.

Ref. No.	ELE	DEEA	2019	Vector Network Analyzer Educational Kit
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Date: 19.07.2019

Due Date: 09/08/2019

Under Certificate of posting

To:

Dear Sirs,

1. Quotations are invited in duplicate for the various items shown below/overleaf/enclosed list.
2. 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 him on or before the due date stipulated above.
3. The Quotations should be valid for sixty days from the due date and period of delivery required should also be clearly indicated.
4. If the item is under DGS & D Rate contract, Rate Contract Number and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate Contract price. If so, please send copy of the R.C. (Please note that we are not Direct Demanding Officers).
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable.
6. Local Firms: Quotations should be for free delivery to this Institute. If Quotations are for Ex-Godown, delivery charges should be indicated separately.
7. Firms outside Chennai: Quotations should be F.O.R Chennai. If F.O.R consignor station, freight charge by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of Sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have Concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which a commission Sales Tax certificates will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

Specification enclosed and quotation to be sent to the below address:

*Dr. Deepa Venkitesh
 Professor,
 Department of Electrical Engineering,
 Indian Institute of Technology, Madras,
 Chennai – 600 036.*

Yours faithfully,

HEAD / Project Co-Ordinator

Requirements for Vector Network Analyzer Educational Kit

An assembleable Vector Network Analyzer educational kit which can be assembled from subsystems such as RF Transceiver Board, RF & Microwave components and cables for educational purposes in teaching labs. A vector signal analyzer is an instrument that measures the magnitude and phase of the input signal at a single frequency within the IF bandwidth of the instrument. This kit will help students understand the measurement of S – parameters in the RF range. The required specifications are as follows.

1. Type : Ability to assemble from subsystems such as RF Transceiver Board, RF & Microwave components and cables.
2. Frequency range : 100 to 6000 MHz
3. Load impedance : 50 Ω
4. Isolation between signal ports : at least 80 dB
5. Port Return loss : -10 dB
6. Absolute maximum Input power : ≥ 10 dBm
7. Operational current consumption : < 1 A
8. Operation temperature : 18 to 35 Deg. C

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