INDIAN INSTITUTE OF TECHNOLOGY KANPUR

Department of Electrical Engineering

Enquiry No.: - EE/SA/INQ/2017-18/07

Opening Date: - 05/07/2017 Closing Date: - 19/07/2017

Sub: Inquiry for Frequency Response Analyzer

We are interested in purchase of handheld thermal imager camera. Our organization is an educational institute of repute and liable to get **educational discount** from the manufacturer / supplier. Please specify the discount separately.

Please send your **Sealed Quotation** to the undersigned for the same. The envelope should be marked as "**Frequency Response Analyzer-EE/SA/INQ/2017-18/07**"

Items required:

Item required	Specifications	Quantity
Frequency	Should also work as	1
Response	Impedance Meter	_
Analyzer	■ Should have frequency range: 1 Hz – 40 MHz	
7, 20.	Should be optimized for : LCR-Q measurements	
	of passive electronic components	
	 Should be ROHS Compliant 	
	Gain Phase Meter	
	The Injection transformer should have	
	■ Usable frequency range: 1 Hz – 10 MHz	
	■ 3 dB frequency range : >= 7 Hz – 5 MHz	
	■ Insertion Loss: < 0.5 dB	
	Frequency Range:	
	1 Hz to 40 MHz	
	Frequency Accuracy :	
	At least \pm 0.3 dB (< 1 year after calibration)	
	\pm 0.6 dB (< 3 years after calibration)	
	Input channels	
	No. of input channels : 2	
	Input Connectors: BNC	
	Input Sensitivity: 100 mV full scale for input	
	attenuator 0 dB	
	Dynamic Range: >100 dB at 10 hZ receiver bandwidth	
	Gain Error: At least < 0.1 dB	
	 Phase Error: At least <0.5° (calibrated) 	

- Input Attenuator: 0 dB, 10 dB, 20 dB, 30 dB, 40 dB.
- **Receiver bandwidth:** 1Hz to 3kHz
- Maximum AC input signals at CH1 or CH2: >=50VRMS up to 1MHz, >= 7VRMS 10MHz to 40MHz

Should be able to operate on 230 V, 50 Hz.

I/O Interface to connect to computer:

- USB (include accessories required for USB connectivity)
- Software to interface with computer must be included in the quotation.

Operating Temperature: 5-40 °C

Include the accessories compatible with the product and their price.

Should have at least 3 years warranty. Warranty must include/cover parts, labour and transportation cost. (in case of extended warranty, appropriate price should be clearly mention in the quotation)

Note:

- 1. Your quotation shall contain Authorization Letter from manufacturer.
- 2. Quotation must be valid for minimum of 90 days.
- 3. Delivery period should not be more than 10 weeks and delivery should be at IIT Kanpur or CIF New Delhi.
- 4. Send complete detail of the product(s).
- 5. Payments terms: 90% on installation and 10% on satisfactory report (FOR IIT Kanpur) or LC (CIF New Delhi)
- 6. Price must include all taxes and charges (including delivery, installation etc.)
- 7. IITK has exemption on excise and custom duty. Suitable certificate would be provided if required by the supplier.
- 8. All prices are to be FOR IIT Kanpur or CIF New Delhi.
- 9. The Institute reserves the right of accepting and rejecting any quotations without assigning any reason.

Sandeep Anand
Department of Electrical Engineering, IIT Kanpur
Kanpur, UP – 208016, India
Email: asandeep@iitk.ac.in