Quotation Notice

OPTO/P-26/2012

Quotations are invited for the following items in the Department of Optoelectronics, University of Kerala, Kariavattom, Thiruvananthapuram.

Impedance / Gain Phase analyzer

Impedance/gain-phase Analyzer with in-built Generator which can work both in voltage and current modes for thin film/ceramics/bio samples with ZPlot software package with Lap top computer with latest configuration.

Specification
- Frequency resolution: 1 in 65 million (0.015ppm)
- 0.1%, 0.1º accuracy
- Resolution to 0.001dB, 0.01º -Unsurpassed with detailed capturing facility
- Measures impedances >100MΩ
- 2-, 3- and 4-terminal measurement
- Provision to measure ac and dc conductivity measurement
- Frequency range 10μHz to 32 MHz
- Polarization voltage up to ±40.95V
- Ability to differentiate effects due to electrodes, diffusion, mass/charge transfer by analysis over different frequency ranges
- Equivalent circuit/modeling techniques for detailed analysis of results
- Generator should have the following features:
  - ac Amplitude ≤10MHz > 10 MHz in voltage mode (VM)-0 to 3V rms and in current mode (CM)-0 to 60mA rms
  - Resolution 5mV in VM and 100μA in CM
  - dc bias range ±40.95V in VM and ±100mA in CM
  - Maximum dc resolution 10mV in VM and 200μA in CM
  - Output impedance 50Ω±1% in VM and >200kΩ at <1kHz in CM

The firms who wish to supply the items are requested to submit the quotation in sealed cover to the undersigned on or before 18.03.2013.

Kariavattom,

06.03.2013.