

PRECISION IMPEDANCE ANALYZER

| Tender Specifications | |
|---|--|
| Parameter | Required Specification |
| Description / Measurement of Parameters | <p>Impedance analyzer should measure high impedance 100mΩ to 2GΩ with a broad frequency range.</p> <p>Voltage: 10 mV to 1V rms(Best Resolution 100μV)</p> <p>Max. Frequency: 10 MHz</p> <p>Min frequency: 20Hz</p> <p>Frequency Resolution: 1mHz or better</p> <p>Basic Accuracy of measurement: $\pm 0.05\%$(please provide accuracy chart)</p> <p>The impedance analyzer should be able to connect with the computer through user friendly software and should be controlled with a computer for its operation and analysis.</p> <p>Instrument should have provision to operate easily through front</p> <p> Z , Y , θ, R, X, G, B, L, C, D, Q</p> |
| Fixture | Axial Radial component |
| Model Name | Clearly mention make and model number of the equipment being offered. |
| R, X , Z | 100 m Ω to 2G Ω . |
| C | 1fF to 1 F |
| L | 100 pH to 1kH |
| Interface | GPIB , LAN, USB, RS232 should be available |
| Connectors | Require 4 (four) BNC cable to BNC cable connection |
| Frequency Resolution | 1 mHz |
| Sweep Parameters | Frequency, Signal Voltage, DC bias |
| No. of Measurement Points | Upto 1600 in one sweep analysis. It should be selectable. |
| Trimming Standards and Calibration | <p>Provide trimming standards for calibration</p> <p>The Impedance Analyzer should be pre-calibrated</p> |
| Ranging | Auto /Manual |

| | |
|---|--|
| Power Supply | 230 V, 50 Hz. Ac. |
| Display | Touch screen, Instrument should be able connect Monitor for display. |
| Compatibility | Instrument should be compatible with high Temperature and Low temperature systems |
| High Temperature option Variable Temperature | |
| Operating Temperature | Ambient to 1000°C |
| Sample Holder | High Temperature holder for bulk samples |
| Temperature Controller | PID Temperature controller |
| Data logging software | Parameter Vs Frequency , Parameter Vs Temperature |
| Interface | RS232 |
| Interfacing Cables | Compatible Cables should be provided along with the setup which supports the high frequency operation. |