



**DEPARTMENT OF ELECTRICAL ENGINEERING  
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February 8, 2016

Due date: February 24, 2016

**Sub: Web enquiry for “Electrometer/ High Resistance Meter”**

We are interested in procuring one “**Electrometer/ High Resistance Meter**” meeting the specifications given in Annexure-1. Kindly submit your sealed quotation for the same with accessories so as to reach the undersigned mentioned mailing address **on or before 4 pm of February 24, 2016.**

Kindly adhere to the following points:

- The quotation should contain the complete technical brochure.
- The order will be placed in the name of the principals.
- Proprietary certificate would be attached with the quotation if proprietary item.
- A certificate from principals indicating that you are their authorized dealer should be submitted.
- **The quote should be valid for a period of at least 90 days.**
- The warranty period should be clearly indicated.
- The time for delivery should be indicated.
- Payment terms will be as per IIT Kanpur rules.
- The indenter is reserve the right to cancel the tender without any answer.

(Dr. Nandini Gupta)  
Professor  
Department of Electrical Engineering

**Mailing Address:**  
**Mr. Lekhraj Singh**  
**Technical Superintendent**  
**High Voltage Laboratory, WL 114**  
**Department of Electrical Engineering**  
**Indian Institute of Technology Kanpur**  
**Kanpur – 208016, Uttar Pradesh, India**

**Annexure -1, Technical specifications for “Electrometer/ High Resistance Meter”**

<i>The quoted model of the “Electrometer/High Resistance Meter” should meet the specifications given below.</i>	
<b>Quantity</b>	<b>One.</b>
<b>Resistance Measurement with alternating polarity method.</b>	
Resistance measurement Ranges	1 Ω to 10 <sup>18</sup> Ω
Resolution	2MΩ, 20MΩ,200MΩ,2GΩ, 20GΩ, 200GΩ, 2TΩ,20TΩ,200TΩ) 1Ω with 6½ Digit display
<b>Current Measurement:</b>	
Current measurement	10x10 <sup>-18</sup> A to 20mA
Current measurement ranges	20pA, 200pA,2nA,20nA,200nA,2μA, 20μA,200μA,2mA,20mA
Resolution	10aA (10x10 <sup>-18</sup> A) with 6½ Digit display
Input Bias Current	<3fA
Burden voltage on the lowest current ranges	<2μV
<b>Voltage Measurement:</b>	
Voltage measurement Ranges	1μV to 200V
Resolution	2V,20V,200V
Input Impedance	1μV with 6½ Digit display >200TΩ
<b>In-built Voltage Source:</b>	
Voltage Magnitude Ranges	Up to ±1000V
Resolution	100V,1000V
Max. output current	5mV with 5½ Digit display
Settling time	±10mA& ±1mA <50ms to rated accuracy
Built-in test sequence for different device characterization tests.	Surface & Volume Resistivity, Surface Insulation Resistance and Voltage Sweeping.
Coulomb meter with charge measurement	1fC to 2μC
Temperature measurement (Thermocouple)	-25 <sup>0</sup> C to 150 <sup>0</sup> C
Humidity Measurement	0 to 100%
Display	6½ Digits ,LCD/TFT
Computer Interface	USB/ GPIB
Main Input Power supply	Single –Phase 240VAC ±10%, 50Hz
Connecting Leads & Probes	
Relevant Software	
External Protection Circuit for meter if any	
Relevant Accessories	