

NOTICE INVITING QUOTATION

NIQ No.: IITD/PHYSICS/2011-12/SjC/

DUE DATE: 14-02-2012

Sealed quotations along with **complete details (brochures/web-site details)** are invited for procuring a **Voltage/Current Source meter with Measurement capability** as per following desired specifications.

S.No.	Name of the item and its Specifications/Parameter	Quantity												
1	<p>Voltage/Current Source Meter, with Dual Capability of either Measuring I & Sourcing V or Measuring V, Sourcing I, and measuring resistance across the Device Under Test.</p> <p>The specifications are as follows:</p> <p>Current Capability: programmable Min. ± 100 pA to Max not less than ± 3A or so</p> <p>Voltage capability: programmable Min. ± 1 μV, Max. not less than ± 100 V or so.</p> <p>Power Output: ≥ 100W</p> <p>Ohms range: 20Ω to not less than 200 MΩ, with auto range change feature</p> <p>Resistance Measurement option: Both 2 wire and 4 wire OPTIONS required.</p> <p>Resolution:</p> <table style="margin-left: 20px;"> <tr> <td>I</td> <td>Min 1 nA required</td> </tr> <tr> <td>V</td> <td>Min 1 μV required</td> </tr> <tr> <td>R</td> <td>Min 10 $\mu\Omega$ required</td> </tr> </table> <p>Accuracy:</p> <table style="margin-left: 20px;"> <tr> <td>I</td> <td>typically better than 0.05 %</td> </tr> <tr> <td>V</td> <td>typically better than 0.05 %</td> </tr> <tr> <td>R</td> <td>typically better than 0.1 %</td> </tr> </table> <p>Input power : 240V/50Hz compatible.</p> <p>Transient Response Time: $\leq 30\mu$s after change of load</p> <p>Output Settling Time: $\leq 100\mu$s to reach 0.1% of final value after processing the command</p> <p>Other Essential Features:</p> <ul style="list-style-type: none"> Programmable over IEEE-488, and RS-232 interface. Memory for storing/reading 5000 or higher readings Digital /TTL output 4 or higher (30 - 40 Volt, ≥ 0.5 A) Trigger 1 trigger Input Guard cable for ohms measurement Digital display, 5½ or better Over voltage protection Current limit indication Overshoot indication Output Slew rate feature of better than 100mV/μsec <p>The vendor should submit/supply the printed version of the Operating manual</p>	I	Min 1 nA required	V	Min 1 μ V required	R	Min 10 $\mu\Omega$ required	I	typically better than 0.05 %	V	typically better than 0.05 %	R	typically better than 0.1 %	ONE
I	Min 1 nA required													
V	Min 1 μ V required													
R	Min 10 $\mu\Omega$ required													
I	typically better than 0.05 %													
V	typically better than 0.05 %													
R	typically better than 0.1 %													

TERMS & CONDITIONS COVERING SUBMISSION OF QUOTATIONS

1. **Delivery** The rates quoted must include all taxes/charges. FOB prices should be indicated.
2. **Payment Terms** The payment terms should be clearly indicated in the offer.
3. **Validity of quotations** Quotations will be considered **valid for 3 months** from the date of receipt unless otherwise stated.
4. **Correspondence** No correspondence regarding acceptance/rejection of a quotation will be entertained.
5. **Submission of quotations** Quotations should be sent in a sealed cover marked at the top with our **N.I.Q. REFERENCE AND DUE DATE FOR OPENING** as otherwise it will not be considered.
6. **Discount/ rebates** Special discount/rebate wherever admissible keeping in view that the supplies are being made for Educational purpose in respect of Public Institution of National importance may please be indicated.
7. **Warranty & delivery period** **Necessary information must be provided in respect of**
 - (a) Warranty (**3 years**) and
 - (b) Delivery period
8. **Other**
 1. Quotations will be entertained from OEM or their authorized sales/service agents in India. A letter to this effect from OEM stating clearly that the quoted item(s) is(are) manufactured by them and necessary after sales service will be provided by them.
 2. The **printed brochures and website link detailing the technical specifications of the items quoted MUST be provided** in the offer, **failing which the offer shall not be considered.**
9. **Rejection** Quotations not conforming to above terms and conditions will be rejected.
10. **Institute's rights** Institute reserves the rights of acceptance or rejection of any or all quotations without assigning any reason(s). The discretion for increasing or decreasing of the quantities demanded also vests with the Institute.

(Prof. Pankaj Srivastava)
Chairman, PC

(Sujeet Chaudhary)
email: sujeetc@physics.iitd.ac.in, Phone: 01126591341