



Indian Institute of Technology Kanpur

Materials Science & Engineering

Enquiry Number: MSE/SO/Nov-2017/03

Enquiry Dated: November 20th, 2017

Closing Time & Date: 5:00 PM, December 11th, 2017

We require the quotation for precision source meter complying with or better than all of the specifications mentioned in **Appendix A**. The closing time and date for the above item is **5:00 PM on December 11th, 2017**.

The prospective supplies are required to send quotation in two parts in sealed envelopes, as “Technical Bid” and “Financial Bid”. The Technical Bid should contain detailed technical specification of the product being offered and should not mention any prices. Mark, for each line item whether the system quoted by you complies or not. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges. The two separate and sealed envelopes should be clearly marked appropriately as “Technical Bid” and “Price Bid”.

Terms and Conditions:

1. Maximum education discount, if any should be offered
2. Validity of quotation should be at least for 60 days
3. All prices are to be FOR IIT Kanpur.
4. Price should include shipping charges, installation and training cost.
5. Vendor must provide 3 (THREE) - years onsite warranty for all parts/components and servicing.
6. Normal payment terms for the Institute will be applicable.
7. Quotation should carry proper certifications like agency certificate, proprietary certificate, etc. Parent company should be an established company with good number of installations and after sales support in India as well: Attach details.
8. An undertaking that the vendor will supply all the spares and services for the equipment for at least three years from the date of commissioning at site.

Kindly send the Technical and Financial bids in sealed envelopes latest by 5:00 PM on 11th December 2017 to:

Dr. Shobit Omar
Faculty Building 412
Materials Science & Engineering
IIT Kanpur, U.P. 208016, India.
e-mail: somar@iitk.ac.in
Ph: 09454012093

Appendix A

Technical Specifications for Precision Source Meter

S.N.	Parameter	Required Specifications
1.	Description	Integrated Voltage/Current 4-Quadrant source measure unit for quick, easy and accurate I/V measurements
2.	No. of Channels	One
2.	Voltage Source range and resolution	$\pm 200 \text{ mV} - 200 \text{ V}$ ($5 \mu\text{V} - 5 \text{ mV}$)
3.	Voltage Measure range and resolution	$\pm 200 \text{ mV} - 200 \text{ V}$ ($100 \text{ nV} - 100 \mu\text{V}$)
4.	Current Source range and resolution	$\pm 10 \text{ nA} - 1.5 \text{ A}$ ($10 \text{ fA} - 10 \mu\text{A}$)
5.	Current Measure range and resolution	$\pm 10 \text{ nA} - 1.5 \text{ A}$ ($10 \text{ fA} - 10 \mu\text{A}$)
6.	Resistance measure range and resolution	$2 \Omega - 200 \text{ M}\Omega$ ($1 \mu\Omega - 100 \Omega$)
7.	Connectors type	Banana Input standard Banana to Triax/Coax optional
8.	Source/Output Mode	Pulse Mode, Linear or Logarithmic or List, Fixed DC level
9.	Minimum programmable pulse width and resolution	$50 \mu\text{s}$ ($1 \mu\text{s}$)
10.	Minimum programmable value to create list sweep waveform	$100 \mu\text{s}$ ($1 \mu\text{s}$)
11.	Common Mode Isolation	$>1\text{G}\Omega$
12.	Input/Output Connectivity	GP-IB, USB, LXI
13.	Display	Alpha-numeric with 6 1/2-digit measurement resolution (Graphical is optional)
14.	Safety and Certification:	Unit must have CE certification and comply to international safety norms
15.	Storage	Should allow for setup files and data storage directly on USB
16.	Software:	Software (windows OS based) for different modes of operation such as quick I/V, wide range of multi-terminal devices etc. and data analysis.
17.	Accessories	All required accessories (such as kelvin probe set and test lead kit) must be included in price quote, additional accessories must be quoted as optional
18.	Power Source	$90 \text{ VAC} - 264 \text{ VAC}$ ($47 \text{ Hz} - 63 \text{ Hz}$)
19.	Documentation	<ul style="list-style-type: none"> • One sets of operating manual for the equipment and control system should be provided in hard copies. • A soft copy of the above manuals should also be provided in a CD/DVD.
20.	Safety Norms	<ul style="list-style-type: none"> • The instrument should be compliant with international norms for safety and environment.
21.	Installation, Commissioning and Training	<ul style="list-style-type: none"> • The delivery of the unit should be considered complete only after successful commissioning of the instrument. • The pre-installation requirements should be communicated to IIT Kanpur well in advance of the installation. • The Installation, commissioning and training should be done only by well-trained factory engineers.

Appendix A
Technical Specifications for Precision Source Meter

		<ul style="list-style-type: none">• The supplier should provide training to at least two candidates at the installation site to make them familiar with smooth operation of the instrument.
22.	After-sales Service	<ul style="list-style-type: none">• The supplier should provide a prompt after-sales service such as regular instrument maintenance, troubleshooting and fixing.• The list of service centers in India should be included.
23.	Spares	<ul style="list-style-type: none">• An undertaking that the vendor will supply all the spares and services for the equipment for at least 3 years from the date of commissioning.
24.	Source Meter of the same model in India	Provide the list of institutes where the same model is installed.

Warranty and Maintenance:

1. Must have warranty for three years (in base cost)
2. Include the extended warranty and AMC (annual maintenance cost) for the next two years as 'optional'