



The National Institute of Engineering

Manandavadi Road, Mysuru – 570 008, Karnataka, India

(An Autonomous Institution under Visvesvaraya Technological University, Belagavi)

Estd: 1946

• Recognised by AICTE, New Delhi • Accredited by NAAC, New Delhi

• Grant-in-Aid by Government of Karnataka

Vision Group on Science and Technology (VGST)-GRE Project

No.: 1845/311

Date: 20/02/2025

TENDER NOTIFICATION FOR SUPPLY OF SCIENTIFIC EQUIPMENT

(Through e-procurement system only)

E-tenders are invited from reputed Manufacturing Companies/Authorized dealers for the Supply of Scientific Equipment (LCR meter) under the VGST-funded project, Govt. of Karnataka at the Department of Physics, The National Institute of Engineering, Mysuru (GRE1122/2024-25)

The minimum specifications for the **LCR meter** are as follows:

SL. No	Description	Specification
1	Frequency Range	DC, 4 Hz to 2 MHz or Better
2	Frequency resolution and accuracy	10 mHz $\pm 0.02\%$ of setting or less
3	Resistance Measuring range	100 m Ω to 100 M Ω , 10 ranges
4	Measurement Function	Any of the following parameters can be measured and displayed: Z, Y, θ , X, G, B, Q, R-dc (DC resistance), Rs (ESR), Rp, Ls, Lp, Cs, Cp, D (tan δ), σ , ϵ .
5	Measurement Speed	2 ms or better
6	Functions	Comparator, BIN measurement (9 categories for 2 measurement parameters), Trigger function, Open/short compensation, Contact check, Panel loading/saving, Memory function.
7	Setting range	Normal mode: V mode or CV mode 4 Hz to 1.0000 MHz: 10 mV to 5 Vrms (maximum 50 mArms), 1.0001 MHz to 8 MHz: 10 mV to 1 Vrms (maximum 10 mArms). Normal mode: CC mode: 4 Hz to 1.0000 MHz: 10 μ A to 50 mArms (maximum 5 Vrms), 1.0001 MHz to 8 MHz: 10 μ A to 10 mArms (maximum 1 Vrms).
8	Setting resolution	10 mV to 1.000 V: 1 mV steps, 1.01 V to 5 V : 10 mV steps. 10 μ A step
9	Output Impedance	Normal mode: 100 Ω , Low impedance high accuracy mode: 10 Ω
10	DC bias Measurement, operating mode, accuracy	Generating range: DC voltage 0 V to 2.5 V (10 mV resolution) or better. In low Z high accuracy mode: 0 V to 1 V (10 mV resolution) or better. Operation mode OFF/ON. Accuracy $\pm 10\%$.

11	Residual charge protection function	Discharge voltage reference value: At 400 V DC or less, 5 J or less; at 1,000 V DC or less, 0.5 J or less.
12	Other functions	Display Digit Settings: 3 to 6 digits or better. Zoom off/ Zoom On Function. Internal Temperature monitoring function.
13	Display ranges	Z: 0.00 m to 9.99999 G Ω , Y: 0.000 n to 9.99999 GS, θ : \pm (0.000° to 180.000°), Q: \pm (0.00 to 9999.99), Rdc: \pm (0.00 m to 9.99999 G Ω), D: \pm (0.00000 to 9.99999), Δ %: \pm (0.000 % to 999.999 %), or other
14	Basic Accuracy	Z \pm 0.06% with 1 year guaranteed period.
15	Built-in Memory	Max 300 items or higher
16	PC interface	USB/LAN/RS232/GPIB or any two will be preferred
17	Display	Touch screen panel
18	AC Power input & Power	100 to 240 V AC, 50/60 Hz & 50VA maximum
19	Accessories	User manual, Power Cable, LCR application or software disc, DC to 8MHz 4-terminal probe with lock, 1m cable length, OEM Test report with calibrated data. Dry temperature calibrator (Optional) with Range: 50 to 400°C, Accuracy: \pm 0.8°C
20	Availability for additional SMD fixtures, Pincher probe, DC bias current unit, DC bias voltage unit, and test fixture for future upgradation should be available in the datasheet / in manual / on the website.	
21	Safety & EMC	The kit should comply EMC EN61326, Class A Safety EN61010,

Interested parties may download the tender form from the website: <https://kppp.karnataka.gov.in>. Tenders should be through e-portal only. Tender processing fees as per e-portal and EMD of Rs. 15,000/- for the equipment shall be remitted through e-procurement mode. Parties must mention make and model No. with detailed specifications of the equipment offered by them. The tender document Should consist of a "Technical Bid" and a "Financial Bid."

1. Date of Commencement for submission of tender document: 24/02/2025.
2. Last Date and Time of Receipt of Tender: 10/03/2025 at 17:30 hrs.
3. Opening of Technical bid: 12/03/2025 at 11:30 hrs.
4. Opening of Financial bid: On or After 13/03/2025
5. Place of opening bids: Principal office, The National Institute of Engineering, Mysore – 570 008
6. Address for Communication: Principal, The National Institute of Engineering, Mysore – 570008

Delivery Period: Within 60 Days from the date of issue of purchase order.

Warranty Period: 36 months

GENERAL GUIDELINES/ TERMS & CONDITIONS

1. The tenderer is required to ensure browser compatibility of the computer well in advance of the last date and time for receipt of tenders. The institute shall not be responsible for non-accessibility of the e-procurement portal due to internet connectivity issues and technical glitches.
2. The bidders shall ensure credit of the Tender processing fee and EMD into the respective receiving bank accounts of e-procurement on or before the last date of bid submission. EMD payments through e-payment mode shall be made as one transaction, and payments made in part are liable for rejection.
3. The EMD and security deposit are liable to be forfeited as liquidated damages in the event of any evasion, refusal, or delay on his/her part in signing the contract form.
4. The tenderers shall bear all costs associated with the preparation and submission of their tender, and the institute will, in no case, be responsible and liable for that cost.
5. Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Government of Karnataka.
6. The quoted price should be inclusive of all types of taxes, GST, service tax, VAT, sales tax, clearance charges, transportation, erection(commission), excise duty, customs duty, etc., and all incidental charges for Mysore-570008, Karnataka, India.
7. The quotation should be valid for 90 days from the last date of submission.
8. No representation of enhancement of the price once accepted will be considered.
9. Incomplete specifications offered by the Tenderer will not be considered and liable to be rejected.
10. Conditional tenders will not be accepted. Special conditions, if any, printed on the bid sheets of the tenderers or attached with the tender will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.
11. The vendor should upload the relevant product literature/brochure containing the details of the specifications for the equipment/model quoted.
12. All products should meet industry standard specifications. The equipment should comply with the description, particulars, and specifications supplied by the institution and the specifications offered by the bidder, which are accepted by the institution. Any deviations are liable for rejection of the tender or rejection of the equipment even after supply.
13. If the equipment delivered at the site is rejected, the institute is not responsible for paying any charges, and the supplier is solely responsible for removing the equipment. If such equipment is not removed from the site within a period of two weeks, the institute reserves the right to remove it from the site and the risk has to be borne by the supplier. The institution reserves the right to recover handling and storing charges in case of such an event.
14. The warranty shall commence only upon successful completion of the Acceptance, Test or Commissioning.
15. The supplier shall provide Comprehensive maintenance and servicing facilities throughout the warranty period by trained people at his own cost.
16. During the warranty period, if it is found that the performance is not up to the mark, the decision of the purchaser on that behalf is final and is binding on the supplier. The supplier has to rectify/replace such defective equipment at his own cost. Otherwise, supplier has to pay compensation.

17. The supplier warrants that the Goods supplied under this contract are new and unused, and they incorporate all items in the schedule of requirements.
18. Support should be available as per the local time.
19. Bidder has to specify OEM service center address located in INDIA with a website link for proof. An executive from NIE may visit the service center address provided by the bidder.
20. Training/Demonstration/Installation: Bidder has to provide a demonstration/training of equipment free of cost.
21. Tenders should upload the contact details separately.
22. The Financial Bid will be opened after the complete evaluation of the technical documents.
23. If the equipment is not supplied within the specified date, the next lowest quoted party will get the order, and all the losses incurred will be collected from EMD.
24. Equipment should be delivered at the Department of Physics, The National Institute of Engineering, Manandavadi Road, Mysore - 570008.
25. 100% payment on installation, demonstration along with instruction manual, and successful completion in all respects and final acceptance by the Purchaser.
26. The National Institute of Engineering does not bind itself to accept the lowest bidder and the authority reserves the right to reject or accept any or all the tenders without assigning any reasons.
27. Interested tenderers can get the information through the website address <https://www.kppp.karnataka.gov.in>
28. Bidders should abide by other terms and conditions as prescribed in the K/G-1 standard tender document.
29. For any clarification, bidders may contact Dr. Sankarshan B. M., Assistant Professor, Principal Investigator (VGST-GRE Project), Department of Physics, The National Institute of Engineering, Mysuru – 570008 (sankarshan.bm@gmail.com, 9535051930) during office hours.

Documents/ Evidence Required from the Bidder

1. Latest Company Registration Certification should be valid to date.
2. Similar work done certificate
3. GST registration certificate
4. Desirable - List of supplies/Installations of Equipment of similar nature
5. Copy of the manufacturer certificate if the tenderer is a manufacturer
6. Desirable - Authorized agency certificate from Original Equipment Manufacturer
7. ISO standard Certificates
8. Relevant product literature/brochure containing the details of the specifications for the equipment/ model quoted.
9. Self-declaration stating the firm is not blacklisted with any Govt/Quasi Govt. Organizations in Rs. 100/- non-Judicial e-stamp paper of Government of Karnataka.
10. Complete contact details with communication address and Mobile Number.
11. Checklist of all the Documents uploaded.



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TENDER NOTIFICATION FOR SUPPLY OF SCIENTIFIC EQUIPMENT

(Through e-procurement system only)

E-tenders are invited from reputed Manufacturing Companies/Authorized dealers for the Supply of Scientific Equipment (Source meter) for the year 2024-2025 under the VGST-funded project, Govt. of Karnataka at the Department of Physics, The National Institute of Engineering, Mysuru (GRE1122/2024-25).

The minimum specifications for the **Source meter** are as follows:

SL. No	Description	Specification
1	Voltage Source and measure ranges	500mV to 800V or higher
2	Voltage resolution	Measure: 100 nV, Source: 5 μ V.
3	Current Source and measure range	100nA to 1A or better
4	Current resolution	Measure: 10 fA Source: 500fA.
5	Voltage Accuracy	0.02% + 200 μ V @ 200 mV or better 0.02% + 50 mV @ 1000V or better
6	Current accuracy	0.15% + 250 pA @ 10 nA or better 0.04% + 500 μ A @ 1 A or better
7	Power rating	20 W or better
8	Sweep types	Linear, log, Custom, Source Memory mode.
9	Internal buffer	>5000000 readings
10	Programming interfaces supported	USB, GPIB, Ethernet (LXI), TSP
11	Expansion Interface for Multichannel operation	TSP link –used for Trigger and communication with each other supporting Master Slave mode
12	Signal supported connectors	Front Panel Banana Jacks/rear panel 3 lug & Triax
13	Measurement speed	3000 readings / sec
14	Measurement Display Resolution	User selectable 3 ½ to 6 ½
15	Measurement mode	Voltage, current, Resistance, power
16	Display and control	Built-in Touch screen display. Icon-based control to setup measurement, source and graphical display
17	Storage of setups and export measurement data	Through front panel USB pen drive slot
18	Digital I/O interface	9-Pin Female D connector 6 - I / O user programmable

19	Accessories	Standard accessories as per OEM datasheet, software for IV characterizations for testing TENG setup.
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6. The quoted price should be inclusive of all types of taxes, GST, service tax, VAT, sales tax, clearance charges, transportation, erection(commission), excise duty, customs duty, etc., and all incidental charges for Mysore-570008, Karnataka, India.
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9. Self-declaration stating the firm is not blacklisted with any Govt/Quasi Govt. Organizations in Rs. 100/- non-Judicial e-stamp paper of Government of Karnataka.
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TENDER NOTIFICATION FOR SUPPLY OF SCIENTIFIC EQUIPMENT (Through e-procurement system only)

The National Institute of Engineering, Mysuru, invites e-tender from reputed Manufacturing Companies/Authorized dealers for the supply of Scientific Equipment: Source meter and LCR meter under the VGST-funded project. For more information and to upload bid, visit <https://kppp.karnataka.gov.in>. Last date: March 10, 2025, at 17:30 hrs.

Tender number: NIE/2024-25/IND0004/CALL-2 and NIE/2024-25/IND0005/CALL-2

For more details, contact: Dr. Sankarshan B M (PI) : at sankarshan.bm@gmail.com, Ph: 9535051930 or visit <https://nie.ac.in/>

ವೈಜ್ಞಾನಿಕ ಸಲಕರಣೆಗಳ ಪೂರೈಕೆಗಾಗಿ ಟೆಂಡರ್ ಅಧಿಸೂಚನೆ

(ಇ - ಪ್ರೊಕ್ಯೂರ್‌ಮೆಂಟ್ ವ್ಯವಸ್ಥೆಯ ಮೂಲಕ ಮಾತ್ರ)

VGST-ನಿಧಿ ಯೋಜನೆಯಡಿಯಲ್ಲಿ ವೈಜ್ಞಾನಿಕ ಸಲಕರಣೆಗಳ (Source ಮೀಟರ್ ಮತ್ತು LCR ಮೀಟರ್) ಪೂರೈಕೆಗಾಗಿ ಪ್ರತಿಷ್ಠಿತ ಉತ್ಪಾದನಾ ಕಂಪನಿಗಳು/ಅಧಿಕೃತ ವಿತರಕರಿಂದ ಎನ್‌ಐಇ, ಮೈಸೂರು ಇ-ಟೆಂಡರ್ ಅನ್ನು ಆಹ್ವಾನಿಸುತ್ತದೆ. ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ ಮತ್ತು ಬಿಡ್ ಅನ್ನು ಅಪ್‌ಲೋಡ್ ಮಾಡಲು, <https://kppp.karnataka.gov.in> ಗೆ ಭೇಟಿ ನೀಡಿ. ಕೊನೆಯ ದಿನಾಂಕ: 10ನೇ ಮಾರ್ಚ್, 2025, 17:30 ಗಂಟೆಗೆ.

ಟೆಂಡರ್ ಸಂಖ್ಯೆ: NIE/2024-25/IND0004/CALL-2 ಮತ್ತು NIE/2024-25/IND0005/CALL-2

ಹೆಚ್ಚಿನ ವಿವರಗಳಿಗಾಗಿ ಸಂಪರ್ಕಿಸಿ: ಡಾ. ಸಂಕರ್ಷಣ್ ಬಿ. ಎಂ.(ಪಿ ಐ) : sankarshan.bm@gmail.com,

Ph: 9535051930 ಅಥವಾ <https://nie.ac.in/> ಗೆ ಭೇಟಿನೀಡಿ.

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