

025 Technical bid = Impedance Analyzer - CNDProcurementmanager - <procurementmanager@bmsce.ac.in>
Draft

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PO Box: 1908, Bull Temple Road, Bengaluru - 560019, Karnataka India. Tel: 080-26622130 - 135 (Extn 5021), Email ID: storessection@bmsce.ac.in**INVITATION FOR TECHNICAL BID / TENDER****Reference Number:** ST/CND-32/2026-27/002/025**Date:** 12.06.2026**Enquiry Number:** 025**Department:** CND Department**Last date for submission of Technical Bid – submission of technical compliance report as per specifications mentioned below on or before 19.06.2026 – 5 PM by return email.****Subject: Procurement of Impedance analyzer as per the specifications mentioned below on or before 19.06.2026 – 5 PM by return email (Item Code No.: 26CNDE01)**

To,

THE VENDOR,

Dear Sir/Madam,

You are requested to provide the Technical Bid – Specification **Impedance analyzer** intended to quote Technical compliance report for our tender specifications **by return email on/or before 19.06.2026.**

Sl. No.	Name of the item	Specifications	Quantity
1	Impedance analyzer	Given below Slight variation in specifications is acceptable	01

Parameters	Required Spec
Instrument details	LCR meter with integrated High temperature furnace for thin film/pellet material testing.
Frequency range	DC, 4 Hz/20 Hz (or less) to 10MHz/15MHz/40 MHz
Frequency setting & Resolution	min 10mHz steps (can slightly vary)
Frequency Accuracy	±0.01% of setting or less (can vary slightly)
Resistance measuring range	1mOhm to 200 Mohm or more
Measurement Function	Any of the following parameters can be measured and displayed: Z, Y, θ , X, G, B, Q, Rdc (DC resistance), Rs (ESR), Rp, Ls, Lp, Cs, Cp, D (tan δ), σ , ϵ , etc...

Measurement speed	1ms
Functions	Comparator, BIN measurement (9 categories for 2 measurement parameters), Trigger function, Open/short compensation, Contact check, Panel loading/saving, Memory function.
Impedance accuracy (basic)	Z \pm 0.05% rdg. θ : \pm 0.03° (can vary)
DC bias measurement	DC voltage 0 V to 2.50 V (10 mV resolution) (can vary)
Display range	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
Frequency characteristic sweeping in software	yes
PC interface	USB, LAN, RS232
Furnace Temperature Range	Room temperature to 400°C or more
Temperature accuracy	\pm 3% (can vary)
Heat up time (Min)	90 (can vary)
Thermocouple	K Type or applicable type
Furnace temp control	Auto & Manual
Furnace software capable to	1.Parameter over a frequency range at fixed temperature. 2.Parameter over a temperature range at fixed frequency. 3.Dielectric constant over a frequency range at fixed temperature. 4.Dielectric constant over a temperature range at fixed frequency. 5. Z Plot over a frequency range at fixed temperature. 6. Z Plot over a temperature range at fixed frequency.
Sample holder	for Thin film & Pellet (included accessories)
Accessories	4 terminal Probe with (clip type) and furnace connection cable
Operating temperature and humidity	0°C to 40°C (32°F to 104°F), 80% RH, non-condensing
Storage temperature and humidity	-10°C to 50°C (14°F to 122°F), 80% RH, non-condensing
Power supply and maximum rated power	100 V AC to 240 V AC (50/60 Hz), 50 VA

Standards compliance	EMC: EN 61326, EN 61000 Safety: EN 61010
Software	Included

SPECIAL NOTE: PLEASE DO NOT SEND ANY PRICE BID / DETAILS technical bid and compliance statement submission is mandatory as a pre-requisite for participation in the commercial bid.

Terms & Conditions for the Technical Bids:

1. Technical Bid as per the format provided in Link: [https://bmsce.ac.in/assets/files/Tenders/BMSCE%20Technical%20Compliance%20Statement%20for%20Vendors%202025%20\(Format\).pdf](https://bmsce.ac.in/assets/files/Tenders/BMSCE%20Technical%20Compliance%20Statement%20for%20Vendors%202025%20(Format).pdf) and should be sent to the email id storessection@bmsce.ac.in, storessection1@bmsce.ac.in
2. Quote our Enquiry Ref No & Your reference No./Quotation No. with date in all your correspondence
3. Warranty/Validity: Two years/Standard
4. Product details with Brand/Manufacturer/other details should be included.
5. Details of the current customers to whom similar/same equipment is supplied with contact name and numbers should be provided.
6. For any clarification regarding the Specifications, commercial terms and such, email/contact the above contact details.
7. For all the other detailed Terms & Conditions; refer to the Link: [https://bmsce.ac.in/assets/files/Tenders/BMSCE%20General%20TERMS%20&%20CONDITIONS%202025%20\(%20for%20Commercial%20Tenders%20&%20Enquiries\).pdf](https://bmsce.ac.in/assets/files/Tenders/BMSCE%20General%20TERMS%20&%20CONDITIONS%202025%20(%20for%20Commercial%20Tenders%20&%20Enquiries).pdf)
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