



**STARTUP  
INCUBATION AND  
INNOVATION  
CENTRE  
IIT KANPUR**

Tender: **Ref NO: Benchtop Vector/AI ML/ DJAC Building/IIT/FIRST/DP/17-11-2025**

To,  
Foundation for Innovation  
And Research in Science & Technology  
IIT Kanpur Kalyanpur Kanpur UP 208016

**Invitation for Quotations of equipment's for our DJAC Building at FIRST of IIT Kanpur.**

Sealed Quotations (**technical bid and financial bid, separately inside the main envelop**) along with **Certificate or Authorization Letter** are invited as per the specifications provided in the below table for the items from the **authorized suppliers**. The sealed quotation should reach the undersigned on or before **27-11-2025** before **1700 hrs.** Through registered/speed post/courier/by hand.

The envelope must be inscribed with "Quotation for the Tender: **Ref NO: Benchtop Vector/AI ML / DJAC Building/IIT/FIRST/DP/17-11-2025**

**The Quotations would be evaluated separately**

**Benchtop Vector Network Analyzer**

Sl. No.	Parameter	Tender Specification
1	Model	Benchtop with built-in touch screen display
2	Frequency	9 KHz to 20 GHz or better
3	No. of Ports	2
4	Frequency Resolution	1Hz or better
5	Aging per year	±1 ppm or better
6	Output power	0 dBm or better, resolution 0.01 dB Minimum: -10 dBm or better
7	Power output accuracy	2 dB or better
8	Measurement Bandwidth	1 Hz to 500 kHz or better
9	Measurement points per trace	upto 100001 or better
10	Dynamic Range	≥ 100 dB or better
11	Trace noise upto 20 GHz @ 10 KHz IFBW	Magnitude: < 0.005 dB (RMS) or better
		Phase: < 0.05° (RMS) or better
12	Test Port Noise floor	≤ -112 dBm/Hz or better
14	Measurement Parameters / Formats	Full S-Parameter test set for bidirectional measurements (S11,S22,S21,S12), Smith Chart, Impedance, Single port balanced device measurement, Wave quantity, Wave Ratios, Z parameter, Y parameter

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15	Supported Sweep	Frequency, Power
16	Measurement Functions	Measurement Wizard, De/embedding functionality, fixture compensation
17	Test ports	3.5 mm Male
	<b>General</b>	
26	Test port Damage Level	+27 dBm, 30 VDC
27	Windows OS	Windows 10 OS or better
28	Internal Storage	≥ 32 GB or better
29	In-built display	10 inch color LCD, touchscreen
30	Save/Recall & Limit Lines	Required
31	Interface	LAN, USB
32	Warranty	1 Year or better
33	Future Upgradable	VNA: Time domain analysis Spectrum Analyzer: Freq Range : 9KHz to 20GHz, Freq Resolution: 1Hz, RBW & VBW: 1Hz to 10MHz, Supported Measurements: ACLR, Occupied Bandwidth, SEM, CCDF, Time domain power, TOI, AM mod depth, Spectrogram, Noise Figure, Analog Demod
	<b>Accessories to be included</b>	
34	Mechanical Calibration Kit	Frequency: 3.5 mm Female
35	Test Cables	Compatible 3.5mm(Male to female) cables (2Nos), phase stable cable
36	Manufacturer should have NABL accredited Lab or ISO9001:2015 repair & service center within India	Required

### **Terms & Condition**

1. Each bidder shall submit only one quotation.
2. FIRST reserves right to accept or reject any or all bid(s) without assigning any reason.
3. It may be mandated to present the bids in-person at FIRST, IIT Kanpur and bidder shall be ready for it without any prejudice.
4. The bidder should be a reputed vendor and should have establishment of more than 5 years old. Copy of certificate of Establishment should be provided with the Technical Bid.
5. The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted

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offer shall be incorporated in the purchase order.

6. Financial bids of technically qualified and approve bidders shall be opened.
7. Financial evaluation is purely done on the total financial implication.
8. Quotations from the bids that do not meet the technical criteria set in the tender document will not be considered irrespective of the price or any other criteria.
9. Payment shall be made in full upon successful delivery and acceptance of the goods/services by the purchaser, in accordance with the agreed specifications and terms outlined in the contract.
10. In - Charge will be appointed by FIRST for supervision of work and verification of Bills.

**Prof. Deepu Philip**  
**Director, FIRST**

**Address for Quotation:**

**Prof. Deepu Philip**

Office No. S7, Second Floor  
FIRST, SIIC Centre, Sixth Avenue,  
Indian Institute of Technology Kanpur  
Kalyanpur, UP- 208016 INDIA

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