

Specification Sheet for the Network Analyzer

General Specifications:

Two Port Vector Network Analyzer in the Frequency range 9 KHz to 6.5 GHz. A system in the frequency range 5 KHz to 6 GHz with the specification listed below is also acceptable. The specification MUST be met in the Frequency range 10 MHz to 3 GHz. In the remaining freq. band the variation should not exceed more than $\pm 5\%$. Operating and service manual must be provided. The system maintenance support for 10year must be guaranteed. Three year warranty of the system must be included in the cost and quoted separately.

S.No.	Specification	
1	Frequency range	9KHz to 6.5 GHz or 5 KHz to 6 GHz
2	Connector Type	Type – N (female) With adapters for converting to SMA Female
3	Input Impedance	50 Ohm
4	Dynamic Range	At least 100 dB above 300 KHz
8	Output power range	10 dBm to – 70 Bm
9	S21 , S12 Mag. Uncertainty	0.04 dB (Typical)
10	S21, S12 Phase uncertainty	0.3 degrees (typical)
11	S11, S22 Magnitude uncertainty	0.3 dB (Typical)
12	S11, S22 Phase Uncertainty	2 degree (Typial)
15	Maximum input Level	At least 1 W (30 dBm)
16	Output Power Level	10 dBm to -70 dBm
17	Source Power range	-55dBm to 10 dBm
18	Display	log, linear, VSWR, Smith Chart , Polar Plot, Group Delay
19	Measurements which are essential	Scattering parameters, return loss, Insertion loss / gain (2-ports) VSWR, DTF, RL/DTF and cable loss etc.
20	connectivity	Open windows, USB, LAN, GPIB
21	Electronic Calibration Module (quote as an option)	
22	Calibration : Full 2 port with short, open, load, through, TRL desirable	
23	Quote for port cables, port dc bias inputs, and cal kit as options if already not included	

Note: The quotations may be submitted by latest by 1000 Hrs on 23rd June at the address given below:

Office of the
Centre for Applied Research in Electronics
Block III, R. No. 215
Indian Institute of Technology Delhi
Hauz-Khas, New-Delhi - 110016

Terms and Conditions:

- 1. The technical specifications and financial bids MUST be submitted in two separate envelopes.**
- 2. We will need a certificate from OEM on the sole selling agent / representative of the OEM**
- 3. The pricing may be quoted in Indian Rupees and US Dollars.**
- 4. IIT Delhi has the right to cancel the tender without assigning any reason**
- 5. Please quote POB as well as CIF IIT Delhi**
- 6. Preferred payment mode is bank transfer after delivery. In case of purchase order is to be issued in US Dollar the Letter of Credit will be issued in favor of the company details provided in the quotation.**
- 7. You are required to supply the bankers details including the swift code and other details to facilitate the wire transfer**
- 8. The payment will be released after successful installation and demonstration of the specifications**