

Request for Quotation for a vector network analyzer (VNA)-cum-Spectrum Analyzer

Last date of submission via email: **8th March 2021**

A request for quotation from **domestic (India-based) manufacturers** for a vector network analyzer (VNA)-cum-Spectrum Analyzer. The quotation should clearly indicate the terms of delivery, delivery schedule, E.D., transportation charges, if any, payment terms etc.

With respect to this tender, the rules laid out by the Government of India in order No. P45021/2/2017-PP (BE-II) issued by the Public Procurement Section, Department of Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, dated 04th June 2020, will be followed. Per this order, the government has defined a 'Class-I local supplier' as "a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 50%". A 'Class-II local supplier' is "a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%". Only 'Class-I' and 'Class-II' local suppliers are eligible to participate in this open domestic tender. Any 'Non-local supplier', i.e., "a supplier or service provider, whose goods, services or works offered for procurement, has local content less than 20%" is ineligible to participate in this tender

Please enclose a compliance certificate along with the bid. This certificate should have a table that should describe your compliance in a "Yes" or "No" response against each of the items in the specifications listed below. If "No" the second column should state the extent of deviation. The third column should state the reasons for the deviation if any. Please enclose a compliance statement along with the technical bid. Bids with no statement of compliance will be considered invalid.

General Terms and Conditions:

1. The vendor should have qualified technical service personnel for the equipment based in India (preferably in Bangalore).
2. The lead time for the delivery of the equipment should not be more than 3 months from the date of receipt of our purchase order.
3. The offer shall be valid at-least 90 days from the date of submission of the commercial bid.
4. The vendors quoting should ideally be registered with IISc, and the quote should ideally carry the vendor registration number in the technical bid. Details of vendor registration can be sought by sending an email to vrekha@iisc.ac.in
5. The covering letter in the bid should clearly mention whether the vendor is a 'Class I' local supplier or a 'Class II' local supplier, failing which the vendor will be automatically disqualified.
6. The vendor should indicate the percentage of the local content and provide self-certification that the items offered meet the minimum local content requirement. They should also give details of the location(s) at which the local value addition is made.
7. Address the quotation to The chairman, Department of Physics, Indian Institute of Science Bangalore

Technical specification for a vector network analyzer cum spectrum analyzer:

S.No.	Specification	Value
1	Frequency span	100 kHz – 13 GHz
2	Frequency resolution	1 Hz
3	Measurement points	2 to 4001
4	Measurement bandwidth	10 Hz – 500 kHz
5	Dynamic range	75 dB for low frequency side
		95 dB in GHz range
6	Trace noise	Less than 0.001 dB

7	Directivity	>40 dB in GHz range
8	Load matching	> 40 dB in GHz range
9	Ports	50Ohm, N female
10	Port power	-35 dBm to -5 dBm
11	Power resolution	0.01 dB
12	Spurious	Less than -40 dBc
13	Max CW RF power damage	> 25 dBm
	SA options	
14	Frequency range	100 kHz – 13 GHz
15	Attenuation	0 to 30 dB
16	Span	0 to full
17	Spectral purity (SSB as 500 MHz) 1 MHz offset	Better than -110 dBc/Hz
18	RBW	10 Hz to 10 MHz (include as a separate option if base unit is unable to meet the requirement)
19	1 dB compression point	0 dBm nominal
20	DANL with 1 kHz RBW	Better than -120 dBm/Hz in 1 GHz-13 GHz range
21	Level display	Linear and log
22	Trace detectors	Max peak, min peak, auto peak, sample, RMS, average
23	Ext 10 MHz reference, 50 Ohm port	yes
24	LAN	yes