



NIELIT CALICUT
(Autonomous Scientific Society of Ministry of Electronics & Information Technology, Govt. of India)
NIT Campus Post, CALICUT-673 601, KERALA
Email: purchase@calicut.nielit.in Web: <http://nielit.gov.in/calicut>
Phone: 0495-2287266 Fax: 0495-2287168

LIMITED TENDER ENQUIRY

By Speed Post
Date: 31.01.2020

Ref. No.: 2(1151)/2019-20 /ASIC/SGEN

To

DUE DATE: 20.02.2020

1. Quotations are invited for the supply of the items as per Annexure.
2. The quotations duly **SIGNED, SEALED AND SUPERSCRIBED ON THE ENVELOPE WITH THE REFERENCE No. AND DUE DATE**, should be addressed to the undersigned so as to reach on or before the due date stipulated above. Quotations received after the due date will not be considered.
3. The quotations should be valid for acceptance for a period of **sixty days** from the due date
4. Quotations will not be accepted by Fax, Email or any such electronic data transfer form.
5. The quotations should be for goods exactly conforming to our requirements and specifications.
6. If the item is under DGS&D Rate contract, the number and the price applicable must be mentioned. It may also please be indicated whether the supply can be made direct to us at the DGS&D Rate Contract Price.
7. Relevant literature pertaining to the items quoted with full specifications and drawings, if any should be sent along with the quotations, wherever applicable. Samples, if called for, should be submitted free of charges and collected back at the supplier's expenses.
8. Copy of Manufacturing licence, Principal or Authorized Distributor/Dealer Certificate, and Proprietary Certificate, as applicable, should be enclosed.
9. Quotations should be for **free delivery** at our Centre and should clearly specify the **delivery period**. If delivery quoted is Ex-Godown/Consignor Station, delivery charges consisting of freight, packing & forwarding charges, insurance, etc. should be indicated separately. Goods should be supplied duly carriage paid and insured.
10. GST Registration Number of NIELIT Calicut is: **32AAATD0315M1Z6**. GST or any other taxes may be charged as per the rates applicable to Scientific/Educational institutions.
11. Security Deposit @ 5% of the Purchase Order/Invoice value shall be retained, in case order/contract value exceeds Rs.1 lakh, which will be released after the expiry of warranty period.
12. Goods shall not be supplied without an official purchase order.
13. Payment : Payment will be made after completion of supply, installation/assembly and commissioning of the items covered by the order along with necessary spares supplied to the entire satisfaction of NIELIT CALICUT. Payment against invoices shall normally be made within 30 days of receipt and acceptance of equipment/materials at our office. **No advance payment will be made under any circumstance.**
14. Incomplete quotations and quotations which do not comply with all the above instructions are liable to be summarily rejected.
15. NIELIT CALICUT does not bind itself to accept the lowest or any such quotation and has the right to accept or reject whole or any part of tenders or a portion of the supply of goods without assigning any reasons. No correspondence in case of rejected tenders will be entertained.
16. **Earnest Money Deposit (E.M.D.) for Rs. 45,000/- be deposited by NEFT in the Bank Account No. 10401158037 (IFSC: SBIN0002207) at State Bank of India, NIT Calicut Branch, CREC Campus, Chathamangalam, Calicut – 673 601, in favour of Director, NIELIT CALICUT, failing which the quotation will be rejected. Proof of Deposit of EMD amount with Tenderer's Bank Account No. and IFSC No. should be submitted with the Quotation.**

Yours faithfully,

Purchase In-Charge
For Executive Director

Encl: Annexure

ANNEXURE TO ENQUIRY

Your Quotation No.

Date:

1	Name of item(s)	4 GHz Vector Signal Generator and Accessories – 1 No
2	Specifications & Quantity As per Specifications attached.	
3	Price per unit in Rs. (in figures & words)	Attach separate list, if required.
4	Total Price in Rupees (in figures & words)	
5	Delivery Period	
6	Terms of Delivery	
7	Taxes, Duties, Octroi & any other statutory levies or charges	
8	Transportation, Insurance, Packing & Forwarding etc.	
9	Discount/off etc., if any	
10	GST Registration No.	
11	Payment Terms	
12	Validity of Tender	
13	Warranty	
14	Any other remarks / EMD Amount and Payment details	
15	Signature of the Tenderer with Name and Date	
16	Address with Email ID & Mobile No.	
17	Central Public Procurement Portal (www.eprocure.gov.in) Registration, Email login ID	

- NB:** (1) The prices quoted and Taxes charged should be Academic/Educational Prices/rates, wherever applicable.
- (2) Enquiry for the above items and specifications can also be downloaded from our website <http://nielit.gov.in/calicut> or www.eprocure.gov.in
- (3) Please register at www.eprocure.gov.in and intimate login details without fail. Watch website for regular updates.

Specifications of 4 GHz Vector Signal Generator- 1 No.

SI No	Parameter	Specifications	Compliance (Y/N)
	Make and Model		
1	Frequency Range	DC to 4 GHz or better	
2	Frequency Resolution	1 μ Hz or better	
3	Frequency stability	1×10^{-11} (1 s Allan variance) or better	
4	Power Level @ RF	-110dBm to + 16 dBm or better	
5	Voltage Out	0.7 μ VRMS (<3 GHz) to 1.5V or better	
6	Power Resolution	0.01dB or better	
7	Amplitude Accuracy @ 1GHz	$\leq \pm 0.15$ dB @ -30 to +10 dBm level or better	
8	Phase Noise, 1 GHz Carrier @ 20KHz offset	≤ -113 dBc/Hz or better	
9	Harmonics	≤ -40 dBc @ 1GHz or better	
10	Input Impedance	50 Ω	
11	VSWR	≤ 1.5	
12	Connector Type	Type – N	
13	Low Frequency Generation Range	DC to 60MHz or better	
14	Amplitude	0.001 Vrms to 1.00 Vrms	
15	Output Connector	BNC	
16	Modulation	AM, FM, PM, Pulse	
17	Modulation Source	Internal (Sine, Square, Ramp, Sawtooth, Pulse, Noise) & External	
18	Internal Baseband Generator	Should be available	
19	Modulation Bandwidth	Internal : 6MHz	
20	Baseband Generator	Dual (I&Q), 16Mbits memory, 6MHz symbol rate, 9bits length and 14bits@125Msa/S Data format	
21	Supported Modulation	2ASK, 4ASK, 8ASK, 16ASK, BFSK, 4FSK, 8FSK, 16FSK, BPSK, QPSK, 8PSK, 16PSK, 4QAM, 16QAM, 32QAM, 64QAM, 256QAM, OQPSK, DQPSK, $\pi/4$ DQPSK, $3\pi/8$ PSK	
22	Symbol Mapping	Standard & User Defined Constellation	
23	Filters	Raised Cosine, Root Raised Cosine, Gaussian, Rectangular, Linear, linearized Gaussian, C4FM, customized FIR	
24	Customize Modulation	It should have software to generate the customize modulation.	
25	Matlab Utility	It should have software where matlab (.m) file can be loaded for customized modulation support.	
26	Ref IN/OUT	10MHz should be available	
27	Out Connectors	BNC for DC to 62.5M and 9KHz to 4GHz at N type	
28	Interface	USB, LAN, RS-232, GPIB	
29	Warranty	3 years	
30	Power requirements	230 \pm 10% VAC, 50 Hz	

Sign of Authorized Signatory with Name & Seal