

Enquiry No: R039G0015

Date: 28/08/2019

Due Date : 12/09/2019

ITI LIMITED,R&D Purchase,
Bangalore Plant,
Dooravani Nagar,
BANGALORE,-560 016
Phone : 080-28503675
Fax: 080-25650971
Email : dymmr_bgp@itilttd.co.in

Originators : R & D, I.T.I LIMITED,DOORVANINAGAR

Dear Sir,

Please quote your prices and delivery for the following items as per the terms and Conditions given.

Item No.	Description of Material	Qty. Reqd.	Instructions for submission of tenders
1.	<p>VECTOR SIGNAL GENERATOR</p> <p>(Specifications and Terms & Conditions are enclosed)</p> <p>Note:</p> <p>1.Kindly submit Technical and Commercial Bids Separately.</p> <p>2. Datasheets/Catalogs/Specification Sheets to be enclosed with the Technical Bid.</p> <p>3. The Performance Bank Guarantee(PBG) for 10% of the Purchase Order value has to be submitted along with the P.O acceptance and it should be valid up to the Warranty period.</p>	01 No	<ol style="list-style-type: none">1. Quotation must be submitted in duplicate, superscribed with our tender number & due date and should reach us well before DUE DATE. Open and/or late tenders and tenders without enquiry nos. are liable for rejection.2. All offers should be complete with specification and catalogue and samples where specified.3. Validity : Quotation should be valid for a period of 180 days from the due date of tender. Prices must remain firm till completion of order.

	<p>4. LD: Liquidate Damages will be 0.5% of total PO value including taxes per week for the first 4 weeks and 0.7% of total PO value per week thereafter subject to as maximum of 5% of total PO value for the delay in deliverables</p> <p>5. Unpriced BOM along with Terms & Conditions to be submitted with the Technical Bid.</p> <p>6. An EMD shall be submitted for an amount Rs.1,20,000/- (Rupees One lakh Twenty Thousand Only) through Bank Demand Draft In favour of ITI LIMITED, Bangalore</p>		<p>4. Payment: Bills will be paid within 45 days from receipt of materials.</p> <p>5. Failure to adhere to any of the above, will disqualify the offer.</p>
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PL. QUOTE FOR REQUIRED QTY. ONLY.

Delivery : 4-6 Weeks from P.O date

Yours Faithfully,
For I T I Limited

M.DIWAKAR BHAT,
Deputy Materials Manager(R)
R & D Purchase

Note: For the technical specifications, compliance statement should be provided for all points mentioned. The compliance has to be indicated individually point wise against each Sl. No. of the specifications listed. If the compliance statement is not provided the offer is liable to be rejected.

TERMS AND CONDITIONS FOR SUBMISSION OF TENDER

1. Inspection: Inspection of goods at our works is final. Goods rejected will be returned on freight to pay basis. Packing & forwarding charges in respect of such consignment will be debited to your account.
2. We reserve the right to accept or reject any or all offers and part or full quantity, without assigning any reason.

3. Please specify your income Tax Account Number and name of I.T. Circle.
4. The quote must be for the quantity specified in the enquiry and should also indicate slab rates for multiples of the quantity enquired.
5. Components to be supplied shall be from the latest batch of production. If terms are offered from stocks the lot/batch code shall not be earlier than 2 years from the date of shipment.
6. Liquidated Damages and risk purchase clauses: Time is the essence of contract and the materials against the order arising out of this enquiry must be delivered by the supplier according to the delivery schedule indicated in the purchase order. In case of any change, the supplier should inform us in advance and obtain our approval to the revised delivery schedule. Should the supplier fail to deliver the material in full or part thereof, we shall be entitled at our option either to recover from the supplier as agreed the liquidated damages and not as penalty, a sum equivalent to half percent of the contract price of the item per week for first four weeks and 0.7% per week thereafter for such delay or part thereof or to terminate the contract in respect of the balance supply so delayed and purchase material elsewhere at the risk of the supplier.
7. FOR INDIGENEOUS OFFERS ONLY:
 - (a) PRICES should always be quoted on F.O.R KRISHNARAJPURAM basis including suitable packing.
 - (b) Specify applicable statutory levies, e.g. Central excise duty, sales tax, etc. In absence of these, the prices shall be treated as inclusive of all such levies & no subsequent claims will be entertained.
8. FOR FOREIGN OFFERS ONLY.
 - (a) Prices must be quoted on F.O.B. Port of dispatch or airport and indicate estimated charges for dispatch by AIR FREIGHT/AIR POST PARCEL to BANGALORE.
 - (b) Prices quoted must include Agency Commission (if any) to your Indian Agents. The same must be specified, which is payable to them in Indian Rupees.
 - (c) Payment: Letter of credit or sight draft through the STATE BANK OF INDIA, BANGALORE- 560 016, as detailed below:
“ITI” will bear only LC establishment charges once & bank charges of State Bank of India. All foreign bank’s charges (i.e. charges while negotiating documents when the same are sent on the collection basis due to certain discrepancies in the presentation of documents (LCBCs etc.) are to be borne by Foreign Suppliers. In case of order placed on sight draft basis (FLCSAs) also, the invoice amount will be paid & all the foreign bank’s charges are to the supplier’s account.

Please furnish your Banker’s name and address for this purpose.

Specification of Vector Signal Generator (Qty. 01 No.)

Sl. No.	Parameters	Specification	Compliance by Vendor
1	Make & model	vendor to indicate	
2	Frequency Range	1 MHz - 7.5 GHz or Better	
3	No. of independent RF outputs	2 (Either single Box Or dual Box solution)	
4	Frequency Resolution	0.001 Hz	
5	Output Power, f > 10MHz to 7.5 GHz	-110 dBm to + 15 dBm or better from both the channels	
6	Harmonics @level ≤ 10 dBm 10 MHz to 7.5 GHz	< -30 dBc, from both the channels	
7	Non harmonics (Non typical)	-76 dBc or better @ 1 GHz -70 dBc or better @ 3 GHz -64 dBc or better @ 6 GHz	
8	Phase Noise@20KHz offset , in CW, 1Hz BW	-125 dBc,at 2 GHz -119 dBc,at 4 GHz -115 dBc,at 6 GHz	
9	Aging rate	1 ppm/year, for both the channels	
10	Digital Modulation Capability in Both Channel	FSK,PSK, MSK, 8FSK, BPSK, QPSK, 8PSK, 16QAM, 32QAM, 64QAM, 128QAM, 256 QAM,AM,FM,Pulse	
11	RF (I+Q) Bandwidth & Memory	≥ 80 MHz, 64 Msa, from both the channels or better	
12	External reference input	10 MHz	
13	MIMO & Real time Fading Capability	Should have the capability to perform 2x2 MIMO with Real time fading.	
14	Input Impedance	50 Ω	
15	Trigger	Free run & external	
16	VSWR	<2	
17	Interface	USB, LAN,GPIB	
18	Connector	Type-N female, 50 Ω nominal	
19	Display	Built-in Display	
20	Power requirement	100 to 240V , 50 to 60 Hz (AC)	
21	Dimensions (W × H × D)	Vendor to indicate.	
22	Weight	Vendor to indicate.	
23	(a) Operating temperature	5 °C to 45 °C	
24	(b) Storage temperature	-10 °C to 60 °C	
25	EMC compliance	Certification is to be indicated & attached	
26	Safety requirements	Certification is to be indicated & attached	
27	Warranty	3 years minimum	
28	Product Support	Min. 05 Years	

Terms & Conditions

1	Installation / Demonstration / 2 days Training at ITI premises in Bangalore.	Free of cost	
2	Vendor to provide the certificate from OEM for authorized distributor or supplier.	Vendor to attach with offer	
3	Vendor to submit separate Technical offer and Commercial offer in separate covers indicating on top of each cover as “Technical offer” and “Commercial offer” .		
4	In Technical offer, vendor to provide, a) Un-priced BoM b) Details (percentage) of individual Taxes, Duties, GST, Freight charges, etc c) Clause wise Compliance/Details for this spec d) Data sheets of offered items covering all detailed features		
5	Vendor shall give a demo of the offered item as part of technical evaluation.		
6	In commercial offer, vendor to indicate individual Taxes, Duties, GST, Freight charges, etc. along with prices of individual items including validity of quote.		
7	Vendor to give the addresses of service centres of the offered items in Bangalore / India.	Vendor to attach with offer	
8	Delivery time	4-6 weeks	
9	PBG for 10% of PO value till completion of warranty period		
10	Payment will be made after installation and demonstration of the instrument successfully.		

NOTICE INVITING TENDER (THREE COVER SYSTEM)

The tender shall be submitted in the three cover system as follows:

1. Part-I (Technical Bid) shall be enclosed in a double sealed cover super scribed with "Part-I (Technical Bid) with tender reference, due date of submission and firm's address with phone no. and E-mail".
2. Part-II (Commercial Bid) shall be enclosed in another double sealed cover super scribed with "Part-II (Commercial Bid), with tender reference, due date of submission and firm's address with phone no. and E-mail".
3. Part-III (EMD) shall be submitted of an amount Rs.1,20,000/- (Rupees One Lakh Twenty Thousand Only) through Bank Demand Draft In favour of "ITI LIMITED" Bangalore.

All the above three documents shall be kept in a separate sealed cover and shall be enclosed in another one sealed cover super scribed with tender reference, due date of submission and firm's address with phone no. and E-mail".

Sealed tender should be addressed to

**Materials Manager(R),
R&D, ITI Limited,
Dooravani Nagar,
Bangalore 560 016**

Email : dymmr_bgp@itilttd.co.in

Note :- Quotation shall be valid for 180 days from the date of opening of the tender.

DETAILS OF BID:

Part-I Technical Bid : It shall consist of the following documents enclosed in a double sealed cover.

1. Description of item, Make, Model along with technical brochure containing detail specification, data sheet Etc without price detail.
- 2) Item wise Compliance Report for the entire enquired item.

Note: No price shall be mentioned in technical bid.

Part-II (Commercial Bid) : It shall consist of the Description of item , Make , Model with price detail I.e. Unit price (delivery to R&D,ITI Ltd ,Bangalore) and applicable statutory Tax / Octori, Freight charges etc.

The statutory levies shall be clearly mentioned in percentage/ amount for each item. The description written as inclusive or exclusive or actual shall not be accepted. The rate shall be quoted FOB / Ex-Works / FOR ITI Limited, Bangalore

NOTE: All the pages of the quotation shall be signed and stamped by the tenderer and submitted.

1. Only the EMD cover shall be opened first and Technical Bid of those vendors who has submitted EMD shall be opened thereafter, on the due date. The date and time of opening of the commercial Bid shall be intimated only to the technically qualified bidders, well in advance

In case you cannot submit the bid please inform through e-mail.

Bids will be received by the

Mailing Section
M/s. ITI Limited, Bangalore Plant,
Dooravani Nagar
Bangalore 560 016

Materials Manager – R