



GOVERNMENT OF TAMILNADU
DEPARTMENT OF TECHNICAL EDUCATION
GOVERNMENT COLLEGE OF ENGINEERING , SALEM -636 011
Phone No. 0427-2346157

(e-tender Notice No. GCE/Salem/0035/A1/ECE/2021/MODROB, Dated : 12.1.2021)

1. On line bids are invited through portal <https://tntenders.gov.in> from the bidders for purchase an equipment

Vector Signal Generator

2. e-bid documents can be downloaded free of cost from <https://tntenders.gov.in>

TERMS AND CONDITIONS: -

1.	The bidders must be registered with Tamil Nadu Government e-procurement system portal and also should possess Digital Signature Certificate.
2.	Bidders with their branch office and service centres in Tamilnadu only should participate in the tender. Copy of proof of address for having office and service centres within Tamil Nadu should be uploaded
3.	The online bids should be submitted directly by the original manufacturer/supplier, if the bid is submitted/filled/uploaded by any representative/agent/ dealer then they must upload an Authorization Certificate from the OEM (Original Equipment Manufacturer)/Principal Company for quoting the price/participating tender, otherwise such bids shall be rejected
4.	All the items/Goods/Equipment/Machinery/Articles should be delivered and installed at the Government College of Engineering, Salem-11.
5.	Bidders should submit their bids in two bid system through online in prescribed format only.
	a. Technical Bid: Shall be submitted along with scanned copies of necessary documents such as Brochure/ Pamphlets / Detailed specifications / GST Registration Certificate if any in PDF format only. The bidders if not submitted detailed Technical Specification such bids shall be rejected.
	b. Financial Bid : <ol style="list-style-type: none"> i. In xls format only (Excel Format) ii. Rate per unit should be mentioned iii. Other elements of price such as duty / tax / Packing and Forwarding/loading and unloading/ installation should be included in addition to the basic price of the equipment. iv. All rates quoted should be in Indian Rupees (INR) only v. Price quoted by the bidder should be Firm and Final.

6.	Bidders must not have been blacklisted by any of the Department / Institution of Government of Tamil Nadu. The bidder should submit a letter duly stating the same
7.	The bidder should have submitted income tax statements for the financial years 2017-2018 and 2018-2019
8.	The bidders should possess a valid GST certificate. The copy of the GST registration certificate is to be submitted / uploaded. Rate of GST as per (HSN Code) Tamilnadu Government norms.
9.	At any time during bidding period the Bidder should be ready to submit the proof for documents already submitted by the bidder, if asked by the tender inviting authority
10.	Incomplete / not clear bids shall be rejected
11.	The minimum warranty period should not be less than ONE year. The warranty including all items supplied, including accessories from the date of commissioning and installation of equipments/ items/goods/ machinery/ articles.
12.	The rate quoted should be open for acceptance for a validity period of not less than 90 days
13.	The offer should be for immediate delivery i.e. within 4 to 6 weeks from the date of receipt of our order or as specified in the purchase order.
14.	Under no circumstances the successful firm shall appoint any sub-contractor or sub-lease the contract
15.	The Supply order will be issued once the financial budget allotment order is received from Directorate of Technical Education, Chennai – 600 025 .
16.	The bills for the supply should be submitted in triplicate along with an Advance Stamped Receipt of payments
17.	The payment will be made within reasonable time only after the receipt and installation of the materials in good working condition in every aspect
18.	Payment terms : No Advance payment will be made
19.	TDS (2%) on Taxable goods to be paid by the supplier if total value of the supply amount exceeds 2.5 lakhs
20.	The peripherals/ components mentioned in the quoted must be reliable and of good quality products of pioneer company/ brand.
21.	The supplier may claim 100% payment against delivery, proper installation & commissioning and fitness certificate
22.	Make & Model and Brand should be mentioned
23.	The Delivery of the items should be done at Government College of Engineering, Salem – 636 011
24.	All rates quoted should be in Indian Rupees (INR) Only
25.	The bidder should submit a list of their renowned customers who purchased the same product (s)

26.	As per Tamil Nadu transparency in tender act 1998 and Tamil Nadu transparency in tender rules 2000
	<p>a. The Principal, Government College of Engineering, Salem reserves the right to modify the technical specifications.</p> <p>b. The Principal, Government College of Engineering, Salem also reserves the right to withheld any amount for the deficiency in service aspect of the ordered items.</p> <p>c. If any dispute, on recommendations of the Evaluation Committee, The Principal reserves the right to accept or reject any quotations even if it is found lowest without assigning reasons thereof.</p> <p>d. The right to reject all or any of the quotation and to split up the requirements or relax any or modify all the above conditions without assigning any reasons is reserved by the Principal, Government College of Engineering, Salem.</p> <p>Notwithstanding anything contained in sub-section (2), if the Tender Accepting Authority decides that the price of the lowest tender is higher with reference to the prevailing market rate or the schedule of rates, the said authority may negotiate for a reduction of price with that tenderer.</p>
27.	Brochures with the images of the product should be produced. Bids without the brochures will be summarily rejected.
28.	Addresses provided must be genuine. If fake address is given, the order will be cancelled immediately without assigning reasons.
29.	For any Corrigendum and addendum please check the above website. www.tntenders.gov.in
30.	The Principal/Tender Inviting Authority, Government College of Engineering, Salem-636 011 has full authority to cancel the tender without any reason and prior intimation.

Principal 12/01/21

Principal (FAC) / Tender Inviting Authority,
Government College of Engineering,
Salem - 636 011.

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Government College of Engineering,
Salem – 636 011.

VECTOR SIGNAL GENERATOR

Parameter	Specifications	Qty
Frequency Range	DC to 62.5MHz & 950KHz to 6 GHz	1 No.
Frequency Resolution	1 μ Hz at any frequency	
Power Level @ 4GHz	-110dBm to +10 dBm	
Amplitude Accuracy @ 1GHz	$\leq \pm 0.6$ dB @ -30 to +10 dBm level	
Phase Noise, 1 GHz Carrier @ 20KHz offset	≤ -113 dBc/Hz	
Harmonics	≤ -40 dBc @ 1GHz	
Residual FM	1Hz rms	
Temperature Drift	5 ppm	
Aging	$< \pm 3$ ppm/year	
Input Impedance	50 Ω	
VSWR	≤ 1.2	
Connector Type	Type – N	
Analog Modulation	AM, FM, PM, Pulse	
Digital Modulation schemes	Should have option to upgrade (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, GSM, EDGE, W-CDMA, DECT, NADC, PDC & TETRA)	
Modulation signals	Sine, ramp, saw, square, pulse, noise	
Symbol Rate	Should have option to upgrade 1 Hz to 6 MHz with 1 μ Hz resolution	
Symbol Mapping	Should have option to upgrade Standard & User Defined Constellation	
Customize Modulation	It should have upgrade option capability to generate the customize modulation.	
Ref IN/OUT	10MHz should be available	
Interface	USB, LAN, RS-232	
Operating Temperature	+5°C to +40°C	
Power requirements	230 \pm 10% VAC, 50 Hz	
Warranty	1 year	
Service & calibration	Manufacturers service centre should be available within the country Manufacture should have their own NABL accredited calibration lab with in the country	

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