

**Single Tender Enquiry
for
Supply and Installation of Vector Network
Analyzer (VNA)**

**Tender Enquiry No: BCREC/DRDO/DSPL/2026-27/02
Dated: 16.07.2026**

**Dr. Sourav Moitra,
Principal Investigator, DRDO
Funded Project,
No. ERIP/ER/202406002/M/01/1862
Dr. B. C. Roy Engineering
College, Durgapur-713206,
West Bengal, India,
sourav.moitra@bcrec.ac.in**

Dr. Sourav Moitra, PI, DRDO Funded Project (No. No. ERIP/ER/202406002/M/01/1862), Dr. B. C. Roy Engineering College, Durgapur invites sealed quotation/tender for Vector Network Analyzer from reputed OEMs/firms/suppliers for the supply of following software/equipment for DRDO Funded Project for the FY 2026-27. The hard copy shall reach to "Dr. Sourav Moitra, Principal Investigator, DRDO Funded Project, Dept. of ECE, Dr. B. C. Roy Engineering College, Jemua Road, Fuljhore, Durgapur-713206, West Bengal, India" latest by 06/08/2026 till 5.00PM with superscribe "Vector Network Analyzer (VNA)/DRDO Sponsored Project Lab Tender Document" over the envelope. The Important information related to tender are as follows:

Detailed Specifications:

SL. No.	Parameter	Offered Specification
1	Model	Benchtop with built-in display
2	Frequency	1 MHz to 6 GHz (with provisional guarantee for future extension upto 18GHz with additional/differential payments, if required)
3	Impedance	50 Ohms
4	No. of Ports	2 N female or 2N male
5	Frequency resolution	1 Hz for entire frequency range
6	Aging	± 1 ppm
7	Achievable initial Cal. accuracy	0.5 ppm
8	Port O/P range	- 10 dBm to 0 dBm with resolution 0.01 dB
9	Power output accuracy	2 dB
10	Measurement Bandwidth	1 Hz to 500 kHz
11	No. of Measurement points:	(per trace) 1 to 5001
12	Sweep Type	Frequency sweep, CW mode
13	Dynamic Range	≥ 100 dB
14	Trace noise (dB, RMS) at 10 kHz IFBW	< 0.005 and Phase: $< 0.1^\circ$ (RMS) or better
15	Test Port Noise floor (@6GHz frequency range)	≤ -120 dBm/Hz
16	Directivity	> 42 dB
17	Source match	> 37 dB
18	Tracking	> 0.16
19	Embedding/De-embedding	Yes, available
20	Measurement Parameters	S-Parameters (S11, S12, S21, S22 etc.), Wave Quantity, Q-Factor, Dispersion Plot, Gain and Wave ratio
21	Test ports	Yes, N type
22	Test port Damage Level	+27 dBm, 30 VDC
23	Windows OS	Windows 10 OS
24	Internal Storage	≥ 32 GB
25	In-built display	10.1 inch or better color LCD, touchscreen

26	Save/Recall & Limit Lines Facility	Required
27	Interface	LAN, USB, Yes Available
28	Operating temperature	+5 °C to +40 °C
29	Input damage power level for test ports	≥ + 27 dBm and ≥ 30 VDC
30	Calibration Kit	1 No Precision coaxial cal-kit up to 6 GHz or better for base unit (Open/Short, Match, through; Male & Female)- 01 set with torque wrench
31	Accessories	Compatible Phase stable & low loss RF cables, 2Qty N-Type F to M Adapter, Printed or soft copy of operating and programming manual etc. (Minimum 01 year warranty)
32	a) Calibration and test reports to be made Available from NMI traceable or equivalent lab b) OEM must have NABL accredited service and repair facility in India for Base Unit Minimum	
33	Calibration Certificate	Calibration certificate
34	Warranty	3 Years + 15 Years Instrument Life Support
35	Support	On-site/On-call uninterrupted support with documented doctrine for Min 01 Year

1. The quotations should contain the following document:

Ser.	Documents	Submitted (yes/no)
1	Valid Proof of Submission of Tender Fees of Rs. 500 (Five Hundred Only) in Acc. No. 213010100111263, IFSC Code: UTIB0000213, Durgapur-713216 .	
2	Experience Certificate/Installation Certificate (certificate from the customers/clients dated not more than 3 years back)	
3	Copy of PAN/TAN, valid Trade License, GST Reg. No	
4	One Cancelled Cheque	
5	IT returns for the last 3 years	
6	Detailed technical product catalogue.	
7	Supplier/distributor should be the manufacturer / authorized dealer. In case supplier/distributor submitted the quotation on behalf of OEM than Letter of Authorization from original equipment manufacturer (OEM) specific to the tender enquiry should be enclosed (as per Annexure A).	
8	An undertaking to the affect that the price quoted by you is the lowest and not more than the price quoted to other Educational Institutes in India within the last 3 months.	
9	An undertaking to the affect that your firm has not been Black Listed/De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last three years.	

2. **Validity:** The validity of the offer shall remain valid for at least 90 days from the date of submission of the offer.
3. **Award of Contract** The contract shall be awarded to the supplier/distributor whose quotation has been accepted and determined as responsive.
4. **Delivery/Installation:** The supplier is required to do the delivery, installation, testing, training and demonstration of the equipment / software within two weeks of issuing the Work/Purchase order upon the arrival of materials/software at DRDO Sponsored Project Lab, Dr. B. C. Roy Engineering College, Durgapur. The supplier is also required to provide tutorials/support (offline/online) as and when required or at least once in a month for a minimum of three years along with lifetime licensing support. Moreover, the supplier is required to ensure that the equipment / software is transferrable anywhere within the country with repeated installation supports on demand as per requirement.
5. **Payment Terms:** After receiving the Software/Equipment Order, the selected supplier/distributor must submit the invoice and the job completion certificate duly signed by the intended authority to release the payment. Payment shall be made by the Purchaser only against delivery, inspection, successful installation, demonstration and acceptance of the software/equipment at DRDO Funded Project Lab, Dr. B. C. Roy Engineering College, Durgapur in working condition and to the entire satisfaction of the Purchaser within three weeks.
6. **Liquidated Damages (L.D):** If a supplier fails to execute the order in time as per the terms and conditions stipulated therein, it will be open to the purchaser to recover liquidated damages for delay in delivery and installation from the supplier at the rate 0.5% of the value of the order per week subject to a maximum of 10% of the total order value. The L.D charges can be increased in case of gross violation of the Purchase Order terms as decided by the Principal Investigator of the DRDO Funded Project and/or Dr. B. C. Roy Engineering College, Durgapur.
7. **Cancellation:** The Principal, Dr. B. C. Roy Engineering College, Durgapur upon consultation with the Principal Investigator (PI of DRDO Funded Project) reserves the right to accept or reject or cancel any or all enquiries or quotations at any stage without assigning any reason thereof.
8. **Dispute:** Any dispute which may arise thereof shall be under the Jurisdiction of Durgapur Sub-Divisional Court.



Principal Investigator,
(DRDO Funded Project)

No. ERIP/ER/202406002/M/01/1862

Principal Investigator
DRDO Funded Project



Principal
Dr. B. C. Roy Engineering College,
Durgapur-713206

Principal
Dr. B. C. Roy Engineering College
DURGAPUR

MANUFACTURER'S/DISTRIBUTER'S
AUTHORIZATION FORM

(To be filled and submitted along with Quotation)

[The Tenderer shall require the Manufacturer/Distributor to fill in this Form in accordance with the Instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer/Distributor and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer/Distributor].

Date: [insert date (as day, month and year) of Quotation Submission]

Tender No.: [insert number from Invitation or Quotation]

To: [insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer/Distributor], who are official manufacturers/distributors of [insert type of goods manufactured], having factories/head office at [insert full address of Manufacturer's/distributor's factories/head office], do hereby authorize [insert complete name of Tenderer] to submit a quotation the purpose of which is to provide the following Goods, manufactured/distributed by us [insert name and or brief description of the Goods], and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with the Terms and Conditions, with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Tenderer]

Dated on

day of, [insert date of signing]