

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)
BANGALORE**

**Tender for Bench top all in one Microwave Measuring Receiver up to
40 GHz or Higher**

Bids to be submitted online

Tender No.: ISTRAC/ISTRAC PURCHASE/TR202400020301 dated 18-06-2024

A. Tender Details

Tender No :	ISTRAC/ISTRAC PURCHASE/TR202400020301
Tender Date :	18-06-2024
Tender Classification:	GOODS
Purchase Entity :	ISTRAC PURCHASE
Centre :	ISRO TELEMETRY TRACKING & COMMAND NETWORK (ISTRAC)

Bench top all in one Microwave Measuring Receiver up to 40 GHz or Higher

Note: 1) This is a Dual Part Tender. Please submit your Offers separately for Technical and Price Bid under relevant Template. Please upload Price Bid under Price Bid only and nowhere else. If price is mentioned anywhere other than Price Bid, your offer will not be considered. 2) Please provide your compliance separately for (a) Performance Bank Guarantee Clause (b) Liquidated Damages Clause (c) Security Deposit Clause (d) Submission of Certificate of Undertaking (e) Make in India Clause

A.1 Tender Schedule

Bid Submission Start Date :	18-06-2024 12:45
Bid Clarification Due Date :	02-07-2024 16:00
Bid Submission Due Date :	19-07-2024 14:30
Bid Opening Date :	19-07-2024 14:30
Price Bid Opening Date :	23-07-2024 16:00

B. Tender Attachments

NA

Instructions To Vendors

1. INSTRUCTIONS TO TENDERERS FOR ONLINE SUBMISSION OF TENDERS THROUGH E-PROCUREMENT SYSTEM

1. a) Bidders shall arrange themselves all resources, including Digital signature certificates and Internet Connections at their own cost, for participating in online tendering.
- b) Vendors can download the tender details and submit their offers online using their vendor accounts (obtained during registration) in our portal. Help demos for tender download and bidding processes are given on home page.
- c) The tender should be submitted online in the ISTRAC link before the due date and time as specified in the tender schedule in the portal.
- d) Vendors shall also take note of other Instructions to tenderers indicated in the tender documents.

2. Conditions for online submission of tenders:

- a) It is mandatory for interested parties to register as vendors in our e-procurement portal <https://eproc.vssc.gov.in/home.html> for participating in online eProcurement process of ISRO. Only registered vendors can submit their offers online in our eProcurement portal.
- b) Vendors who are already registered in the existing EGPS software of ISRO, please register by clicking the link in the email you would have already received from 'eproc@vssc.gov.in'. After registration, do the profile update by login to this portal.
- c) For new vendors, who are not registered in the existing EGPS software, vendor registration will be released along with the portal release. To register as vendors please refer to the help demos listed on the home page of the e-procurement link mentioned above. They may approach help desk (contact details provided on the home page) for any technical help for registration and subsequent process.
- d) OEM details should be added in your E-Procurement profile under Add Agent/Principal without fail.

3. ISTRAC shall not be responsible for failure of vendors in submitting bids online caused due to technical reasons at vendor end such as network or power failures, computer failure, internet-browser, mistakes / errors in filling the bids on line by vendor etc.

4. Procedure for seeking clarifications/help for the tender:

- a) All enquiries regarding the tenders and submission of offers shall be online and only through our eProcurement portal.
- b) Vendors may approach help desk e-mail id and phone number given on the home page for any technical help (e-mail: eproc@vssc.gov.in and Phone: +91471 2565454/4574/2527/3753/3289).

5. Queries by vendors on technical problems on the last day of tender will not be binding on ISTRAC/ISRO for resolving/addressing. ISTRAC will not be responsible for non-submission of bids for those cases.

2. TENDER TERMS AND CONDITIONS

1. All information in Vendor Specified Terms shall be provided without fail to avoid unnecessary correspondence / delay in process. The same should reach before technical bid opening date and time without fail.

2. a) Order no: F.No.6/18/2019 PPD dated 23.07.2020 of Department of Expenditure), Ministry of Finance

Under Public procurement division for the General Financial rule (GFRs).

3. As per Rule 144(xi) of General Financial Rules, 2017, any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non consultancy services) or works (including turnkey projects) only if the bidder is registered with the Competent Authority (i.e., Department for Promotion of Industry and Internal Trade) in line with Order (Public Procurement No. 1, 2 and 3) dated 23/07/2020 and 24/07/2020 or any amendments thereon issued by the Public Procurement Division, Department of Expenditure, Ministry of Finance. Hence, Vendors or Agents of a Vendor (Indian or Others) from a country sharing border with India shall submit the copy of Valid Registration made with DPIIT along with the tender mandatorily, without which the offer will be treated as invalid.

4. A supplier who has been debarred by any procuring entity for violation of this order shall not be eligible

for preference under this order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed.

5. b) Class I local supplier means a supplier or service provider, whose goods, service or works offered for

procurement, has local content equal to or more than 50%, as defined under order.

6. c) Class II local supplier means a supplier or service provider, whose goods, services or works offered

for procurement, has local content more than 20% but less than 50%, as defined under this Order.

7. d) Bidders offering imported products will fall under the category of Non-local suppliers. They cannot claim themselves as Class I Local suppliers/Class II Local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like

AMC/CMC etc. as local value addition.

8. Delivery Terms: FOR ISTRAC

9. e) Verification of local content:

i) The Class I local supplier/ Class II local supplier at the time to tender, bidding or solicitation shall be required to indicate percentage of local content and provide self certification that the item offered meets the local content requirement for Class I local supplier / Class II local supplier as the case may be. They shall also give details of the location(s) at which the local value addition is made.

10. GENERAL TERMS & CONDITIONS FOR BIDDERS: For this procurement, bids from Class I & class II Local Suppliers are admissible. hence provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P 45021/2/2017 PP(BE II) dated 04.06.2020 and subsequent amendment & directives shall be followed. Accordingly, offer will be evaluated & processed in conformation with above referred GOI order (Specially mentioned below). The bidder shall provide compliance and undertaking as per order and hereafter amendments:

11. If an agent submit bid on behalf of the principal/OEM, the same agent shall not submit a bid on behalf of another principal/OEM in this tender for the same item. If submitted, all offers will be liable for rejection.

12. iii) False declarations will be in breach of the code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules (GFR) for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the general Financial Rules along with such other actions as may be permissible under Law.

13. ii) In case bid value is in excess of Rs. 10 Cr., Class I local supplier/ Class II local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

14. In case the bidders propose any other payment terms in deviation with the standard terms mentioned in the tender enquiry, it may be noted that applicable cash flow implications will be loaded on the prices quoted for commercial comparison of the offers. If advance payments are insisted by the bidders, interest at the rate of MCLR (Marginal Cost Linked Rate) as notified by State Bank of India from time to time shall be loaded on the prices for price comparison.

15. In this tender either the Indian agent on behalf of the principal/OEM or the principal /OEM itself can

bid, but both cannot bid simultaneously for the same item. Indian agents while quoting on behalf of their principals shall provide necessary latest authorisation letter obtained from their principals/manufacturers.

16. Liquidated damages: If the vendor fails to deliver the items on or before the delivery date, or any extension thereafter purchaser shall recover from the vendor as liquidated damages a sum of 0.5% of the contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed 10% of the contract price of the unit or units so delayed.

17. Model Certificate for Tenders:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

18. Model Certificates for Tenders for Work involving possibility of sub contracting:

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub contracting to contracting from such countries I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority and will not sub contract any work to a contract form such countries unless such contractor is registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

Provide Compliance for the above in Vendor Specified Commercial Terms.

19. NO EMD AND TENDER FEE.

20. Performance Bank Guarantee (PBG) to be furnished as a security for fulfilment of warranty obligations by the successful vendor after satisfactory execution of purchase order/Contract (3% of the value of the purchase order/Contract). Central SUs/PSE/Autonomous bodies are exempted from the production of Performance Bank Guarantee. Instead; an indemnity bond shall be furnished in lieu of PBG.

21. Product Scope: Class I local supplier/ Class II local supplier shall offer only standard and catalogued product for Equipment / Spares Cards / assemblies. If the above offered Equipment / Cards / Assemblies are under development / to be developed the bid will not be considered.

22. PUBLICITY: No publicity of any kind whatsoever in case of PURCHASE ORDER shall be given by the Supplier without prior permission of the Purchaser.

23. SECRECY: The technical information, drawings, specifications and other related documents, forming part of the CONTRACT, are the property of the Purchaser and shall not be used for any other

purpose, except for execution of the CONTRACT. All rights, including rights in the event of grant of patent and registration of designs are reserved. The technical information, drawings, specifications, records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without Purchasers consent in writing except to the extent required for the execution of this CONTRACT. These technical informations, drawings, specifications and other related documents shall be returned to the Purchaser with approved copies and duplicates, if any, immediately after they have been used for the agreed purpose.

24. Senior Purchase and Stores Officer, ISTRAC, reserves the right to accept or reject any/or all the tenders in part or full without assigning any reasons thereof.

25. Submit the bid on or before due date.

26. Successful vendor has to submit the security deposit. (3 % of the value of the purchase order). Central PSUs/PSE/Autonomous bodies shall be exempted from the payment of security deposit, and instead, an indemnity bond shall be secured from them.

27. VENDORS HAS TO REFLECT THE POINT NO (4), (5) AND (6) IN THEIR BID.

28. TAXES: GST is payable as per applicable rates.

29. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales quotes not permitted. The bids shall be in INR only.

3. CERTIFICATE OF UNDERTAKING

1. A certificate from the bidder shall be enclosed along with their quotation (Technical bid) as per the format enclosed.

2. An AGENT is a person employed to do any act for another, or to represent another in dealings with third person.

3. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. (Competent authority is : DEPARTMENT FOR PROMOTION OF INDUSTRY AND INTERNAL TRADE (DPIIT)).

4. (b)Control shall include the right to appoint majority of the directors or to control the management or policy decisions including by virtue of their shareholding or management rights or shareholders

agreements or voting agreements.

5. Bidder from a country which shares a land border with India for the purpose means:

- (a) An entity incorporated, established or registered in such a country; or
- (b) A subsidiary of an entity incorporated, established or registered in such a country; or
- (c) An entity substantially controlled through entities incorporated, established or registered in a such a country; or
- (d) An entity whose beneficial owner is situated in such a country; or
- (e) An Indian (or other) agent of such an entity; or
- (f) A natural person who is a citizen of such a country; or
- (g) A consortium or joint venture where any member of the consortium or joint venture falls under any of the above.

6. BIDDER (including the term tenderer, consultant or service provider in certain contexts) means any person or firm or company, including any member of a consortium or joint venture (that is an association of several persons, or firms or companies), every artificial juridical person not falling in any of the descriptions of bidders stated hereinbefore, including any agency branch or office controlled by such person, participating in a procurement process.

7. CERTIFICATE

8.

COMPANY NAME AND SEAL:

9. DESIGNATION:

10. Explanation:

- (a) Controlling Ownership interest means ownership of or entitlement to more than twenty-five per cent of shares or capital or profits of the company;

11. GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
ISTRAC, BENGALURU: 560 058.

12. iii) In case of an unincorporated association or body of individuals, the beneficial owner is the natural person(s), who, whether acting alone or together, or through one or more juridical person, has ownership of or entitlement to more than fifteen percent of the property or capital or profits of such association or body of individuals.

13. (iii). I/We _____ hereby undertake that if the Certificate is found to be false at any given time ISRO/ISTRAC may treat this as a ground for immediate termination and further legal action in accordance with law can be initiated.

14. ii) In case of a partnership firm, the beneficial owner is the natural person(s) who, whether acting alone or together, or through one or more juridical person, has ownership of entitlement to more than fifteen percent of capital or profits of the partnership.

15. (ii). I/We hereby confirm that the country of origin of goods is _____

16. i) In case of a company or Limited Liability Partnership, the beneficial owner is a natural person(s), who, whether acting alone or together, or through one or more juridical person, has a controlling ownership interest or who exercises control through other means.

17. (i). I/WE _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I / We _____ Certify that this bidder is not from such a country.

18. iv) Where no natural person is identified under (i) or (ii) or (iii) above, the beneficial owner is the relevant natural person who holds the position of senior managing official.

19. I / We _____ Certify that this bidder is from such a country and registered with the Competent Authority (i.e. Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT). Copy of Registration Certificate is enclosed.

20. NAME:

21. OR*

I/We _____ read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India.

22. Ref: Tender No _____ date _____

Our Quotation No. _____ date _____

23. REQUIREMENT OF REGISTRATION:

24. SIGNATURE:

25. (* Strike out whichever is not applicable).

26. Subject: Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs) 2017 - reg.

27. The beneficial owner for the purpose of (6) above will be as under:

28. (TO BE PRINTED ON THE LETTER HEAD OF THE VENDOR)

29. v) In case of a trust, the identification of beneficial owner(s) shall include identification of the author of the trust, the trustee, the beneficiaries with fifteen percent or more interest in the trust and any other natural person exercising ultimate effective control over the trust through a chain of control or ownership.

4. MAKE IN INDIA UNDERTAKING (VENDORS SHALL SUBMIT THE BELOW CERTIFICATE ON THEIR LETTER HEAD DULY SIGNED)

1. The type of Class which the vendor belongs: Class-I or Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision.(Class I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50% & Class II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%). NOTE: Bidders offering imported products will fall under the category of Non-local suppliers. They cannot claim themselves as Class I Local suppliers/Class II Local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training and after sales service support like AMC/CMC etc. as local value addition.

2. Percentage of local content for the quoted item.

3. Details of location (s) at which the local value addition is made

4. Provide self-certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be.

C. Bid Templates

C.1 Technical Bid - Bench top all in one Microwave Measuring Receiver up to 40 GHz or Higher

1. MEASURING INSTRUMENT

Bench top all in one Microwave Measuring Receiver up to 40 GHz or Higher

Document : Terms and Conditions

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Measurement Modes	a. Measuring receiver, b. Spectrum analyzer, c. IQ Analyzer, d. Vector Modulation Analyzer, e. Phase noise analyzer, f. Noise figure analyzer	Yes / No / Explain		
2	Operating Temperature	0 to +50 DegC	Yes / No / Explain		
3	Aging rate	$\leq \pm 30\text{ppb}$	Yes / No / Explain		
4	Temperature stability over full operating temp	$\leq \pm 5\text{ppb}$	Yes / No / Explain		
5	Frequency reference accuracy	$\leq \pm 70\text{ppb}$	Yes / No / Explain		
6	Measuring Receiver Mode	Yes	Yes / No / Explain		
7	Frequency Range for measuring receiver	100KHz to 44 GHz or wider	Yes / No / Explain		
8	Measurements for measuring receiver	a. Absolute & Relative RF Power, b. Absolute & Relative Tuned RF Level, c. Frequency counter, d. Analog Modulation Quality, e. SINAD	Yes / No / Explain		

9	RF Power Level Accuracy (-10dBm to +30dBm)	100KHz to 4GHz $\leq \pm 0.35$, > 4GHz : $\leq \pm 0.38$	Yes / No / Explain		
10	RF Power level resolution	≤ 1 mdB	Yes / No / Explain		
11	Input SWR	$\leq 2.5:1$ or better	Yes / No / Explain		
12	Tuned RF Level Range @ 10Hz IFBW	-135 dBm to +30 dBm @ 100KHz, -140 dBm to +30 dBm @ 10GHz, -123 dBm to +30 dBm @ 20GHz, -128 dBm to +30 dBm @ 30GHz, -114 dBm to +30 dBm @ 40GHz	Yes / No / Explain		
13	Residual Noise Threshold @ 10Hz IFBW	≤ -105 dBm @ 100KHz, ≤ -110 dBm @ 4GHz ≤ -110 dBm @ 10GHz ≤ -93 dBm @ 20GHz ≤ -98 dBm @ 30GHz ≤ -86 dBm @ 40GHz	Yes / No / Explain		
14	Tuned RF Level Accuracy @ 10Hz IFBW (Residual Noise Threshold to Max Level)	$\leq \pm 0.41$ dB @ 100KHz, $\leq \pm 0.42$ dB @ 4GHz, $\leq \pm 0.46$ dB @ 10GHz, $\leq \pm 0.45$ dB @ 20GHz, $\leq \pm 0.48$ dB @ 30GHz, $\leq \pm 0.47$ dB @ 40GHz	Yes / No / Explain		
15	Frequency counter sensitivity	≤ -35 dBm	Yes / No / Explain		
16	Frequency counter resolution	≤ 1 mHz	Yes / No / Explain		
17	Frequency counter accuracy	rfa = 6.6×10^{-8}	Yes / No / Explain		
18	Amplitude Modulation	Yes	Yes / No / Explain		
19	Measurement range for power	-20dBm to +30dBm or wider	Yes / No / Explain		

20	AM Depth Range	1% to 99% or wider	Yes / No / Explain		
21	AM depth accuracy	$\leq \pm 0.001 \% \times \text{reading}$	Yes / No / Explain		
22	FM rejection	$\leq 0.16\%$ or better	Yes / No / Explain		
23	RMS Residual AM	$\leq 0.05\%$ or better	Yes / No / Explain		
24	Frequency Modulation	Yes	Yes / No / Explain		
25	Measurement range over frequency range	-20dBm to +30dBm or wider	Yes / No / Explain		
26	FM rate range	10 Hz to 1 MHz or wider	Yes / No / Explain		
27	Peak FM deviations range	up to 15MHz	Yes / No / Explain		
28	FM deviation accuracy over range	$\leq \pm(0.5\% + 5\text{Hz})$	Yes / No / Explain		
29	AM rejection	$\leq 53 \text{ Hz}$	Yes / No / Explain		
30	Phase Modulation	Yes	Yes / No / Explain		
31	Measurement range over frequency range for Phase modulation	-20dBm to +30dBm or wider	Yes / No / Explain		
32	PM rate range over frequency range for phase modulation	50 Hz to 1 MHz or wider	Yes / No / Explain		
33	Peak phase deviation over frequency range phase modulation	0.01 to 10,000 rad or wider	Yes / No / Explain		
34	PM deviation accuracy for frequency range	$\pm (0.6\% \times \text{reading})$	Yes / No / Explain		
35	Spectrum Analyzer	Yes	Yes / No / Explain		

36	Frequency range for spectrum Analyzer	44GHz or wider	Yes / No / Explain		
37	Span range	0 Hz (zero span), 10 Hz to 44GHz	Yes / No / Explain		
38	Sweep time	1 μ s to 6000 s @ Span = 0Hz, 1 ms to 4000 s @ Span \geq 10Hz	Yes / No / Explain		
39	RBW & VBW Range	1Hz to 10MHz	Yes / No / Explain		
40	Displayed Average noise level	-150 dBm @ 100KHz, -160 dBm @ 4GHz, -160 dBm @ 10GHz -160 dBm @ 20GHz -155 dBm @ 30GHz -150 dBm @ 40GHz	Yes / No / Explain		
41	Detectors	Normal, peak, sample, negative peak, log power average, RMS average, and voltage average	Yes / No / Explain		
42	Number of simultaneous traces	Six or more	Yes / No / Explain		
43	Number of simultaneous markers	Ten or more	Yes / No / Explain		
44	Inbuilt preamplifier	Should be available	Yes / No / Explain		
45	Maximum safe input level	\geq +30dBm (CW)	Yes / No / Explain		
46	Inbuilt input step attenuator	0 to 70dB in 2dB step or better	Yes / No / Explain		
47	Rack mount kit with handles	Should be available	Yes / No / Explain		

48	Accessories	Metrology-grade coaxial connector adapters and accessories (Qty: each 2no.): a. type-N (f) to 2.4 mm (f) b. APC-7 to 2.4 mm (f) c. 2.4 mm (f) to 3.5 mm (f) d. 2.4 mm (f) to 2.4 mm (f) e. 2.4 mm (f) to 3.5 mm (m) f. Cable assembly 2.4mm (m-f) 50 GHz	Yes / No / Explain		
49	Accredited Certificate and data with Uncertainties, Guardbanding	Should be available	Yes / No / Explain		
50	IQ Analyzer	Yes	Yes / No / Explain		
51	Frequency range for IQ analyzer	44GHz or wider	Yes / No / Explain		
52	Analysis Bandwidth IQ analyzer	$\geq 40\text{MHz}$	Yes / No / Explain		
53	ADC resolution IQ analyzer	≥ 14 bits	Yes / No / Explain		
54	Vector Modulation Analyzer	Yes	Yes / No / Explain		
55	Frequency range for Vector modulation analyzer	2Hz to 44GHz or wider	Yes / No / Explain		
56	Analysis Bandwidth for Vector modulation analyzer	$\geq 40\text{MHz}$	Yes / No / Explain		
57	IQ memory length for Vector modulation analyzer	$\geq 2\text{GB}$	Yes / No / Explain		
58	ADC resolution for Vector modulation analyzer	≥ 14 bits	Yes / No / Explain		

59	Modulation type for Vector modulation analyzer	2-64 FSK, BPSK, QPSK, 8PSK, 16-1024QAM, MSK, ASK, APSK, , DVB-S2/S2X (QPSK, 8PSK, 8/16/32/64/128/256 APSK), TETRA, APCO-25, DMR, SOQPSK-TG etc	Yes / No / Explain		
60	Measurement type for Vector modulation analyzer	Channel power, OBW, CCDF, ACP, SEM and Spurious, Demod Results, Demod Bits	Yes / No / Explain		
61	Phase Noise Analysis	Yes	Yes / No / Explain		
62	Frequency range for Phase Noise Analysis	44GHz or wider	Yes / No / Explain		
63	One-button measurements for Phase Noise Analysis	a. Phase noise log plot in frequency domain and b. Spot frequency measurement	Yes / No / Explain		
64	Frequency offset for Phase Noise Analysis	1Hz to 1GHz or wider	Yes / No / Explain		
65	Measurements for Phase Noise Analysis	a. Absolute Phase noise b. Integrated noise c. Residual FM d. Spurious- peak search	Yes / No / Explain		
66	Noise Figure Analyzer	Yes	Yes / No / Explain		
67	Frequency range for Noise Figure Analyzer	100MHz to 44GHz or wider	Yes / No / Explain		
68	Instrument uncertainty for noise figure	$\leq \pm 0.05$ dB	Yes / No / Explain		
69	Instrument uncertainty for gain	$\leq \pm 0.15$ dB	Yes / No / Explain		
70	Measurements for Noise Figure Analyzer	a. Noise figure, b. Noise factor, c. Gain, d. Effective noise temperature and e. Y-factor	Yes / No / Explain		
71	Noise Source with inbuilt EEPROM to cover full frequency range	ENR: 05 dB Nom	Yes / No / Explain		

72	Data storage Internal	>100 GB SSD	Yes / No / Explain		
73	Power Supply	100 V to 240 V, 50 Hz to 60 Hz	Yes / No / Explain		
74	Warranty & Calibration	3 years standard warranty with calibrations	Yes / No / Explain		
75	RF Connectors and Coaxial adapter	Three set as standard with compatible frequency range	Yes / No / Explain		
76	KIT for connection	For both bench top and Rack mount	Yes / No / Explain		
77	Power Cable	Yes for A/C Power source	Yes / No / Explain		
78	Trolley to carry Power sensor	Vendor will provide suitable trolley to Carry Power sensors	Yes / No / Explain		

Supporting Documents required from Vendor

1. Budegatory quotation

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	on site	Yes / No / Explain	
2	Payment Term (Our normal terms of payment is 100% within 30 days from the date of receipt and acceptance of the item at our site)	Yes / No / Explain	
3	Taxes and other costs, if any	Yes / No / Explain	
4	Delivery Period	Yes / No / Explain	
5	Delivery Term	Yes / No / Explain	
6	Security Deposit: FD or BG for 3% of PO value to be submitted after receipt of PO and valid till supply & acceptance.	Yes / No / Explain	
7	Performance Bank guarantee : BG for 3% of PO value to be submitted while claiming payment valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
8	SD-cum-Warranty (PBG) (in lieu of SD & PBG as a single instrument): BG for 3% of PO value to be submitted after receipt of PO valid till end of warranty period with a claim period of 60 days.	Yes / No / Explain	
9	<p>DELAY IN COMPLETION / LIQUIDATED DAMAGES : If the Contractor fails to deliver the stores within the time specified in the Contract or any extension thereof, the Purchaser shall recover from the Contractor as Liquidated Damages a sum of one-half of one per cent (0.5%) of the Contract price of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed ten percent (10%) of the contract price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.</p>	Yes / No / Explain	

10	Warranty	Yes / No / Explain	
11	Validity	Yes / No / Explain	
12	Name and Address of the company on whom purchase order to be placed (OEM if any should be added in your E-Procurement profile under Add Agent/Principal without fail). Address indicated here must be available in your profile as a Principal/Agent failing which PO will be placed on the e-procurement address available in the profile.	Yes / No / Explain	
13	Certificate of Undertaking: Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods or services (including consultancy services and non consultancy services) or works (including turn-key projects) only if the bidder is registered with the Competent authority (i.e. DPIIT). Hence, it is mandatory to furnish Certificate of Undertaking as indicated in the tender document.	Yes / No / Explain	
14	Foreign vendors are not permitted to quote. 1.Only Class -I and Class-II Local suppliers as per make in India policy are eligible to participate in the bid. 2. The percentage of local content should be specifically mentioned in the offer, without which will be summarily rejected 3. Preference will be given to class-I Local Supplier and in their absence, class-II Local supplier will be considered.	Yes / No / Explain	

15	<p>This tender is restricted only to Class-I and Class-II Local Suppliers as defined under DPIIT Order dtd 04/06/2020- Preference to Make in India Order-2017 Revision. Non-Local Suppliers need not quote. Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales Quotes not permitted. The bids shall be in INR only.</p> <p>Purchase preference to eligible vendors are applicable as per extant notifications issued by the Government of India.</p> <p>The Class-I/Class-II Local suppliers, at the time of submitting their offer, shall also indicate percentage of local content and provide self certification that the item (s) offered meets the local content requirement for Class-I/Class-II Local Suppliers as the case may be. They shall also give details of location (s) at which the local value addition is made. In cases if the item(s) offered exceed Rs. 10 Crores, the Class-I/Class-II Local Suppliers shall provide a Certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. False Declarations will be in breach of the Code of Integrity under Rule 175 (1) (i) (h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.</p>	Yes / No / Explain	
16	Percentage of local content for the quoted item.	Yes / No / Explain	
17	Details of location (s) at which the local value addition is made	Yes / No / Explain	
18	Foreign OEMs/Agents quoting on behalf of Foreign OEMs are not permitted to quote. High Sea Sales quotes not permitted. The bids shall be in INR only.	Yes / No / Explain	

19	GeM Seller ID: As per Gol OM No. 6/9/2020-PPD dated 24.08.2020 and DO No. 170/CEO-GeM/2020, sellers providing Goods and Services to Central Government Organizations shall be registered on GeM and obtain a unique GeM registered ID. Hence please get registered in GeM and furnish your GeM Seller ID.	Yes / No / Explain	
20	Any other terms	Yes / No / Explain	
21	Micro and Small Enterprises [MSEs] a. In order to avail the benefits extended by Government of India to the Micro and Small Enterprises [MSEs] in respect of Goods and Services as per provision of the policy, MSEs registered with District Industries Centre [DIC] or Khadi and Village Industries Commission [KVIC] or Khadi and Village Industries Board [KVIB] or Coir Board or National Small Industries Commission [NSIC] or Directorate of Handicrafts and Handlooms or Udyog Aadhar Memorandum, or any other Body specified by Ministry of MSME have to submit a copy of Valid Certificate with self-attestation along with the Techno-commercial bid. No Certificate claiming exemption will be entertained after Tender due date.	Yes / No / Explain	
22	b. MSEs are entitled for [i] issue of Tender documents Free of Cost [ii] Exemption of Earnest Money Deposit [EMD]. However, Performance Security is mandatory for Goods and Services.	Yes / No / Explain	
23	c. If the MSE Tenderer[s] is/are SC/ST/Woman entrepreneur owned MSEs, specific mention for the same should be there in the valid certificate submitted by the tenderer.	Yes / No / Explain	
24	d. Tenderers claiming MSME benefit shall furnish copy of UAM no. as uploaded on CPP portal to avail benefit	Yes / No / Explain	

25	In case a bidder is an MSE, registered under NSIC or any other Government Agencies and would like to avail exemptions, offer should be accompanied with necessary registration certificate with declaration to consider their offer. Quotation received without such declaration and valid registration certificate will not be considered for exemptions under the Public Procurement Policy.	Yes / No / Explain	
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C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	MEASURING INSTRUMENT Bench top all in one Microwave Measuring Receiver up to 40 GHz or Higher	1.00 Nos.		-		

Common charges (Applicable for all items)

P&F Charges	
Freight Charges	
Installation Charges	
Documentation & Handling Charges	
Other Charges (If any)	