

Bid Document

Bid Details	
Bid End Date/Time	20-07-2020 11:00:00
Bid Opening Date/Time	2020-07-20 11:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Research & Development
Organisation Name	Office Of Dg (aero)
Office Name	*****
Total Quantity	1
Item Category	spectrum analyzers vector network analyzers
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	OEM Authorization Certificate *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Inspection Required	No

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Spectrum Analyzers Vector Network Analyzers (1 pieces)

Technical Specifications

[* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
FEATURES	Description of the item	Two port vector network analyzers (without spectrum analyser)	Two port vector network analyzers (without spectrum analyser)
GENERAL FEATURES COMMON TO SPECTRUM AND VECTOR ANALYSER	Markers	Normal,delta	*
	Trigger	Free run,video,External	*
	Display	TFT Colour display with provision for three traces	*
	Interface	USB,LAN	*
	Software for transfer of screen shot/measurement data to PC	Yes	*
SPECTRUM ANALYZER FEATURES	Frequency Range	NA	NA
	Aging rate of spectrum analyzer frequency: Better than 1x10-6 /Year	NA	*
	Frequency counter Resolution(minimum) (Hz)	NA	*
	Frequency Span	NA	NA
	Spectral purity:SSB Phase Noise @10KHz offset shall be less than -90dBc/Hz at 1GHz	NA	*
	Spectral purity:Harmonics @ -40dBm level <=60 dBc	NA	*
	Sweep time @span >or= 1 KHz	NA	*
	Sweep time @span = 0 Hz	NA	*
	Resolution Bandwidth (-3dB)	NA	*
	Video Bandwidth	NA	*
	Amplitude : Max input	NA	*

VECTOR NETWORK ANALYZER FEATURES	level for protection (dBm)		
	Amplitude : Max input level for measurement (dBm)	NA	*
	Amplitude :level measurement uncertainty (dB)	NA	*
	Average noise level displayed(@300HzRBW,10 Hz VBW)	NA	*
	Average noise level displayed(@100HzRBW,1 Hz VBW)	NA	*
	Average noise level displayed(@300HzRBW,1 Hz VBW)	NA	*
	Measurement features	NA	*
	Frequency Range for 2port vector network analyzer	2 MHz to 6 GHz	*
	Frequency Resolution (CW ON) (Hz)	10	*
	Return Loss (dB)	0.00 to 60	*
	VSWR (dB)	1.01 to 10.00	*
	Cable Loss (dB)	0.00 to 30.00	*
	Calibration with Precision calibration components-open, short, load should be included to achieve directivity >35 dB	Yes	*
	Ability to locate Distance-to-fault in Co-axial cables	yes	*
	Phase Range (degree)	-180 to +180	*
	Phase Resolution (deg)	0.01	*
	RF output port	Type N, female, 50Ohm	*
	Dynamic Range	60	*
	Nominal port power output: Hi Power/Lo-Power selectable	yes	*
	Power levels corresponding to Hi and Lo levels	-	*
	Measurement of S11 and S21 and Smith	Yes	*

	Chart		
	Vector Voltmeter for comparison and verification of the phase of the phase-matched cables	NA	*
	Group Delay measurement	-	*
OPERATING CONDITIONS	Operating Temperature	'5 to 40 degree C & 80% RH @ 40 degree C	'5 to 40 degree C & 80% RH @ 40 degree C
	Operating Humidity	80% RH @ 40 degree C	80% RH @ 40 degree C
POWER REQUIREMENT	Power requirement	230 +- 10 VAC, 50Hz, Rechargeable battery	230 +- 10 VAC, 50Hz, Rechargeable battery
	chemistry of the battery	lithium ion	*
	Voltage of rechargeable Battery	10.8	*
	capacity of rechargeable battery (millAh)	4600	*
	Suitable charger / adaptor provided	Yes	*
WARRANTY	Warranty	3	3, 4, 5 Or higher
ACCESSORIES	Details of Standard accessories covered in the scope of supply	-	*
GENERIC	Other features	-	*
CERTIFICATION/TEST REPORT DETAILS	The equipment supplied with calibration certificate	yes	*
	conformity to Dry Heat for 16 hrs at a specified maximum temp in accordance with IS:9000/part-3/section-5/1977 latest	yes	*
	conformity to Cold Test for 4 hrs at a specified minimum temp in accordance with IS:9000/part-2/section-4/1977 latest	yes	*
	conformity to Damp Heat (Cyclic) Test for 2 Cycles of 24 h each at a temp of 40 degree C & 95% RH	yes	*

Availability of Test Reports from Central Govt/NABL/ILAC approved accredited lab to prove conformity to the specification	Yes	*
Test Report Number and date for the specification test	-	*
Name and address of the Lab for the specification test	-	*

* Specifications highlighted in bold are the Golden Parameters.

* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****BANGALORE	1	30

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods
2. The bidder is required to upload, along with the bid, all relevant certificates such as BIS licence, type test certificate, approval certificates and other certificates as prescribed in the Product Specification given in the bid document.
3. Availability of Service Centres: Bidder/OEM must have a Functional Service Centre in the State of each Consignee's Location in case of carry-in warranty. (Not applicable in case of goods having on-site warranty). If service center is not already there at the time of bidding, successful bidder / OEM shall have to establish one within 30 days of award of contract. Payment shall be released only after submission of documentary evidence of having Functional Service Centre.
4. Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.
5. Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.
6. Timely Servicing / rectification of defects during warranty period: After having been notified of the defects / service requirement during warranty period, Seller has to complete the required Service / Rectification within 15 days time limit. If the Seller fails to complete service / rectification with defined time limit, a penalty of 0.5% of Unit Price of the product shall be charged as penalty for each week of delay from the seller. Seller can deposit the penalty with the Buyer directly else the Buyer shall have a right to recover all such penalty amount from the Performance Security (PBG).Cumulative Penalty cannot exceed more than 10% of the total contract value after which the Buyer shall have the right to get the service / rectification done from alternate sources at the risk and cost of the Seller besides forfeiture

of PBG. Seller shall be liable to re-imburse the cost of such service / rectification to the Buyer.

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---