



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY  
MATERIALS MANAGEMENT DIVISION**

PR NO. 1000052414

RFx No. 6100002673

**Technical Specifications for 20 GHz Vector Network Analyzer (1 Unit each)**

Sr. No.	Description	Value / Range	Technical Compliance (Yes / No)	Additional information (if any)
<b>20 GHz Vector Network Analyzer</b>				
A	Technical Specifications			
A.1	Frequency range	5 kHz to 20 GHz		
A.2	Number of test ports	2 ports		
A.3	Test port connector and Impedance	3.5 mm Male, 50 Ω		
A.4	Frequency resolution	<b>1 Hz</b>		
A.5	Aging	1 ppm/year		
A.6	Output power @20 GHz	Minimum power output: -10 dBm Maximum power output: 0 dBm		
A.7	2nd Harmonics	<-35 dBc typ.		
A.8	Measurement bandwidth	1 Hz to 500 KHz		
A.9	Number of points	1 to 100001		
A.10	Uncorrected System Performance @20 GHz	Directivity & Source match: ≥ 20 dB, 35 dB (typ.)		
A.11	Dynamic range	>100 dB		
A.12	Sweep cycle time @100 KHz BW	< 3.6 ms (meas)		
A.13	Measurements	Band filter marker measurements		
A.14	Embedding and De-embedding	Feature should be available		
A.15	Damage Level	+27 dBm, 30 V DC		
A.16	Display	10.1" diagonal WXGA color LCD with touchscreen		
A.17	Interface	LAN, USB		
A.18	Operating Temperature	+5 °C to +40 °C		
A.19	Power Supply	100 V to 240 V, 50 Hz to 60 Hz		
A.20	Form Factor & Weight	Benchtop, 6 kgs		
A.21	Accessories	Calibration Kit: 20 GHz, 3.5 mm Female, 50 Ω		
A.22	Future Upgradable: Spectrum Analysis feature	Frequency range: 5 kHz to 26.5 GHz, Resolution and Video bandwidth: up to 10 MHz Display range: displayed noise floor up to +30 dBm		
A23	1-year Warranty			

- Please note that the equipment and accessories, have to be supplied and installed at IIT Bombay by the same tenderer to ensure guaranteed operation, technical support/service during warranty period and after-sales calibration/ repairs/ maintenance.
- All the necessary consumables, tools/ accessories of the equipment should be supplied at the time of delivery and should be available in India for future maintenance/ procurement.