

Technical Specification for

HIGHLY COHERENT TUNABLE LASER SOURCE

HIGHLY COHERENT TUNABLE LASER SOURCE		
A.	<u>Tunable Laser Source Specifications</u>	
1	Wavelength Tuning Range	1500 nm to 1630 nm
2	Wavelength Setting Resolution	0.1 pm
3.	Absolute Wavelength Accuracy	±3 pm
4.	Absolute Wavelength Accuracy (operating temperature) at static mode or sweep mode	±5 pm
5	Wavelength Repeatability (typical)	±1 pm
6.	Wavelength Stability (typical)	Less than ±1 pm
7	Sweep Speed	1 to 100 nm/sec
8.	Peak Output Power	+13 dBm
9	Output Power for full tuning range	+10 dBm
10	Power Repeatability	±0.01 dB
11	Power Stability	±0.01 dB
12	Power Flatness vs. Wavelength	±0.2 dB
13	Relative Intensity Noise	-145 (1 MHz to 3 GHz) dB/Hz
14	Linewidth with Coherence Ctrl. Off	200 KHz
15	Linewidth with Coherence Ctrl. On	40 MHz
16	SMSR	≥ 45 dB
17	Signal to Total Source Spontaneous Emission Ratio	≥ 70 dB
18	Signal to Source Spontaneous Emission Ratio	≥ 80 (≥ 90 dB/0.1 nm) dB/nm
B.	Suppliers should provide technical compliance including explanations without fail against each point given in the technical specifications for consideration of the offer.	
C.	Power requirement: As per Indian electrical standards (230V AC, 50 Hz)	
D.	Warranty: Comprehensive warranty for 1 year from the date of installation.	
E.	Parent company should be an established company with a good number of installations (at least 20) and after sales support in India as well.	
F.	Standard configurations will be required. NO CUSTOM BUILT SYSTEMS WILL BE ENTERTAINED.	

(Note: It is mandatory for the bidders to provide the compliance statement in tabular column format along with catalogue page number (comply/not comply) for the Above points with document proof as required. Failing which bidders will be technically disqualified)