

TECHNICAL BID PROFORMA
Item Name: “1550nm low noise laser + amplifier”

Bidder Eligibility Criteria:

1.0	Bidder Eligibility Criteria-I (Public Procurement – Preference to Make in India)	Class I / Class II	Local Content value	Reference, Page No.
I	Only 'Class-I local suppliers' and 'Class-II local suppliers', as defined under DIPP, MoCI Order No. P-45021/2/2017-PP (BE II) dated 16 th September 2020 and other subsequent orders issued therein.			
II	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The Bidder/OEM service center should be available in India. Proof of facility location & contact details to be provided along with technical bid.			

2.0 Technical Compliance:

SI No.	Technical specifications (each module)	Range/ Type	COMPLIED/NOT COMPLIED	REFERENCE PG.NO
1	Laser emission	Continuous wave - single frequency		
2	Output power [mW]	22.5		
3	Operating wavelength [nm]	1535-1580		
4	Output power tuneability [%]	1-100		
5	Lorentzian Linewidth [kHz]	< 0.1		
6	Max. phase noise [dB((rad/vHz)/m)]	-105 @ 1 Hz (typ.), -125 @ 10 Hz, -130 @ 100 Hz, -128 @ 1 kHz		
7	Max. phase noise [(μrad/vHz)/m]	5.6 @ 1 Hz (typ.), 0.6 @ 10 Hz, 0.3 @ 100 Hz 0.4 @ 1 kHz		
8	RIN peak [MHz]	Appr. 0.7		
9	RIN level [dBc/Hz]	< -100 @ peak, < -135 @ 10 MHz > 50 (typ. > 55) ± 350		
10	Optical S/N (50 pm res.) [dB]			
11	Min. thermal wavelength tuning range [pm]	700		
12	Total thermal tuning range [pm]	1000		
13	Fast wavelength modulation range [GHz]	0.5		
14	Fast wavelength modulation [kHz]	Up to 20		
15	PM output - PER [dB]	> 23		
16	Digital interface	USB or Ethernet		
17	Output	FC/APC pigtail		
18	Power supply	240V AC, 50 Hz		

OTHER TERMS AND CONDITIONS			
19	The equipment must be able to run at Room temperature (+/- 2 degree C)		
20	Warrantee: 2 years		
21	Installation: at IIT Madras by the supplier.		
22	Post sales service: at IIT Madras		

(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)

**SIGNATURE OF BIDDER ALONG WITH
SEAL OF THE COMPANY WITH DATE**