

TECHNICAL BID PROFORMA
Item Name: RF POWER AMPLIFIER

1.0 Bidder Eligibility Criteria:

I	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.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 5 similar high speed cameras to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations in the last 5 years, PO copies or installation certificates along with contact details of end users need to be submitted as proof of supply. IIT Madras reserves its right to verify the claims.			
2	The manufacturer should have ISO9001 or similar certifications.			

3.0 Technical Compliance:

Tender is invited for the procurement of RF Power Amplifier according to the specifications below.

SL NO	PARAMETERS	SPECIFICATIONS	Compliance (Yes/No)	Reference Page No.
1	Frequency Range	10 kHz to 250 MHz		
2	Rated Power Output	100 W minimum		
3	Gain at maximum setting	50 dB minimum		
4	Gain adjustment (Continuous range)	20 dB minimum		
5	Flatness	1 dB typical, 1.5 dB max		
6	Input for Rated Power	1 mW max		
7	Input Impedance	50 ohms VSWR 2.0 : 1 max		
8	Output Impedance	50 ohms nominal		
9	Third order intercept	55 dBm		
10	Modulation Capability	Should produce AM, FM or Pulse modulation		
11	Mismatch Tolerance	100% of the rated power without foldback even with shot load and open load Should operate without damage or oscillation with any magnitude and phase of		

		source and load impedance.		
12	Noise Figure	8 dB typical		
13	Connector Type	RF input : N Female RF output : N Female		
14	Spurious	Minus 73 dBc		
15	Cooling	Should have self-contained fans — Forced air		
16	Ethernet	RJ-45		
17	Operating Temperature	5 degrees Celsius to 40 degrees Celsius		
18	Weight	<18.6 K		
19	IEEE-488	24-Pin Female		
20	Power Supply	100-240 V AC @ 50 Hz/60Hz, 500 W		
21	Warranty	3 Years		
22	Safe Interlock	15-pin subminiature D		

	Terms and Conditions		
1	The system has to be set up with experiment and, testing and demonstration		
2	The bidder must provide installation and on-site training support		
3	Min warranty period 3 year.		
4	Technical support should be available preferably through Indian counterparts		
5	Training on this system should be provided free of any additional cost.		

(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**