

TECHNICAL BID PROFORMA
Item Name: “High-speed camera”

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.			
2.0	Bidder Eligibility Criteria-II	Compliance (Yes/No)	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied at least 2 similar items 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 user need to be submitted as the proof of supply. IIT Madras reserves its right to verify the claims submitted by the bidder and the feedback from the previous customers will be part of technical evaluation			

3.0 Technical Compliance:

S.No	Technical Specification	Complied / Not Complied	Reference Page No.
1	Sensor Type: CMOS, Monochrome		
2	Sensor's Full Resolution: 1280×800 pixels		
3	Frames per Second at Full Resolution: 7500 fps or more		
4	Maximum Frames per Sec at Minimum Resolution: It should be possible to use the camera at 700000 FPS or more.		
5	Internal Storage: 72 GB.		
6	Recording time: 1 MP @ 7500 fps, 6.5s or more		
7	Pixel Size: 20 μm or higher.		
8	Bit Depth: 12 Bit		
9	Continuously adjustable resolution (CAR): 64 X 8		
10	Mount: F mount and C Mount		
11	Minimum exposure time: 1μs at any fps		
12	Control Software: A PC-based software program that should interface with ethernet communication. The graphical user interface (GUI) should provide automatic configuration of the camera, session saving for easy Configuration and experiment setup reloads. The software should be able to control the camera, image capturing, image processing and should also allow playback of the recorded videos.		

	Further, the software should support multiple devices.		
13	Connectivity option: Ethernet		
14	Triggering Option: BNC- Trigger, Software trigger		
15	Operating Temperature: 0 to 50 degrees C or more		
16	Weight: A maximum of 2.5 kg for the camera excluding accessories		
17	Data transfer: 10Gb ethernet for fast data download.		
18	Network: Network converter, 10GB NBase-T to Thunderbolt.		
19	PIV Features: Shutter-off mode with the straddle time of 400ns or lower, Support burst mode.		
20	Carry case: Portable cabin Carry - Hard carry case with the wheel.		
ADDITIONAL TERMS AND CONDITIONS			
21	Warranty	One year from the date of installation for both laser and water-cooled chiller.	
22	Installation and service	Onsite (IIT Madras) Installation and Commissioning	
23	Make / Model Required	MAKE: VISION RESEARCH/ Model VRI-VEO-710L-72G-M	

(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**