

TECHNICAL BID PROFORMAItem Name: **High-Speed Camera with Quantum Efficiency****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 10 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 pg.no
1	Sensor Type : CMOS, Monochrome		
2	Sensor 's Full Resolution : Minimum 1- Mega-pixel		
3	Frames per Second at Full Resolution : greater than or equal to 7000 fps		
4	Internal Storage : 128GB		
5	Light Sensitivity :50000 ISO or more		
6	Quantum Efficiency: 70% or more at 590 nm		
7	Software Binning : Software binning to increase light sensitivity with reduced image resolution		
8	Pixel size : Greater than or equal to 20 μ m		
9	Recording time : Consistent with memory		
10	Bit Depth : 12 bit		
11	Mount: F mount and C mount		
12	Shutter: Electronic global shutter		
13	Memory partition: Capable of segmenting the memory into 64 or more segments to record multiple events.		
14	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, image capturing, and image processing and allow playback of the recorded videos. Further, the software should support multiple devices.		
15	Connectivity option: Ethernet		
16	Triggering Option: BNC- Trigger, Software trigger		

17	Operating Temperature: 0 to 50 degree C or higher		
18	Data transfer: 10GB ethernet for fast data download and an additional 4Tb or more SSD drive for high-speed data transfer.		
19	Carry case: Portable cabin - Hard carry case with the wheel.		
ADDITIONAL TERMS AND CONDITIONS			
20	Warranty: one year from the date of installation and 2 year Extended warranty to be quoted as Optional		
21	Installation and service : Onsite (IIT Madras) Installation and Commissioning		

(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**