

**TECHNICAL BID PROFORMA**

Item Name: “HIGH SPEED DIGITAL CAMERA AND ACCESSORIES”

**1.0 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 <sup>th</sup> September 2020 and other subsequent orders issued therein.			
2.0	Bidder Eligibility Criteria-II	Complied / Not Complied	Reference Page No.	Remarks, If any
1	The bidder/OEM should have supplied the quoted item to IITs, NITs, IISERs, CSIR Labs or other Govt. R&D organizations and reputed 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 and it will be part of technical evaluation.			
2	The bidder should have 48 lakhs turnover in any one of the last 3 Financial Year.			

**3.0 Technical Compliance:**

S.No	Specification	Complied / Not Complied	Reference Page No.
<b>Colour CMOS camera</b>			
1.	Sensor: 12 bit CMOS with less than 20-micron size pixel Image Resolution (pixel): Full resolution of 4 Megapixel with minimum frame grabbing rate of 700 frames per second		
2.	Grayscale resolution: 12-bit gray scale resolution		
3.	Minimum sensitivity: Colour – ISO 1000		
4.	Minimum of 700 frames per second at a minimum 4K resolution		
5.	Minimum of 50,000 frames per second at lower resolution		
6.	Ability to record variable region of interest Circular image buffer		
7.	Shutter: Global electronic shutter variable down to less than 3 $\mu$ s		
8.	Recording: Manual and external trigger		
9.	Recording Modes: Start, End, Center, Manual, and, dual speed recording		

10.	Control signal interface to programmable logic controller		
11.	Software to control the system and view images		
12.	Operating system: Software compatible with Microsoft Windows 7 or Windows 10		
13.	Programmable delay on selected input and output triggers		
14.	Phase locking capability to be precisely synchronized to an external source		
15.	Strobe output for synchronizing other events with the camera		
16.	Saved image formats: BMP, TIFF, JPEG, AVI, RAW		
17.	Segmented or partitioned memory is desirable		
18.	Memory: 32 GB		
19.	Provision for user entered event markers		
20.	Lens mount: Interchangeable F mount and C Mounts		
21.	Operating temperature: up to 40 degrees C		
22.	Power requirements: should be able to work with 220 V AC power supply or on batteries		
23.	Minimum warranty for 1 year from the date of installation		
24.	Each quotation of camera should also include a catalogue, containing technical specification of the camera offered, failing which the offer is liable to be rejected. Also, include the offer for the provision of extendable memory and extendable warranty for 2nd and 3rd year.		

<b>Other Terms and Conditions</b>		
Warranty - 1 year Standard Warranty from Date of Installation		
Extended Warranty: 2 Years(Optional)		

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