

**TECHNICAL BID PROFORMA****Item Name: Schlieren Imaging System with Independent Mounting System along with accessories****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 <sup>th</sup> 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 should have supplied at least 5 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.			

**2.0 Technical Compliance:**

Si.No.	Feature	Required features	Complied/Not Complied	Reference Page No
1.	Parabolic Mirrors	Diameter : 300 mm, Focal length = 1200 mm. Surface quality : 40 - 20 (Scratch-dig). Material : Suitable material with protective coating.		
2.	Gimbal Mirror Mount for Parabolic Mirrors	Coarse travel : 360 degree Fine travel : $\pm 6$ degree Construction material : Aluminium / Aluminium alloy. Optical axis height from the floor : 1 to 2 meter. Height adjustment : 150 to 200 mm. Height adjustment mechanism : Manual coarse height adjustment with lock knob. Foot leveling with leveling screws.		
3.	Imaging zoom lens	Suitable image zoom for CMOS		

		camera with F Mount.		
4.	CMOS camera	Sensor : CMOS, Color, 5 MP or better. Frame rate : 8 fps or better @ full resolution. Exposure time : 109 us - 3000 ms. Data interface : USB 3.0 Software interface : **Suitable interface software.		
5.	Knife Edge with positioning mount	Optical axis height from the floor : 1 to 2 meter. Height adjustment : 100 to 200 mm. Height adjustment mechanism : Manual coarse height adjustment with lock knob. Foot leveling with leveling screws.		
6.	LED point light source	LED : minimum 3W ; colour White. Intensity : Adjustable. Optical axis height from the floor : 1 to 2 meter. Height adjustment : 100 to 200 mm. Height adjustment mechanism : Manual coarse height adjustment with lock knob. Foot leveling with leveling screws.		
7.	Image grabbing software	**Suitable image grabbing software.		
8.	Viewing screen	White screen. Optical axis height from the floor : 1 to 2 meter. Height adjustment : 100 to 200 mm. Height adjustment mechanism : Manual coarse height adjustment with lock knob.		
9.	Warranty	Minimum one year warranty period from the date of installation.		

(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**