

## ANNEXURE-I

**Technical specification for Laser and accessories for PIV**

<b>Double pulsed twin resonator PIV Laser (Qty: 1 No)</b>			
<b>PARAMETERS</b>	<b>SPECIFICATION</b>	<b>COMPLIED/ NOT COMPLIED</b>	<b>REFERENCE PAGE NO</b>
Laser type	Nd: YAG		
Wavelength (nm)	532 nm		
Repetition rate	0-100 Hz		
Beam diameter	≤ 8 mm		
Pulse width	< 10 ns		
Divergence	< 8 mrad		
Energy @ 100 Hz (mj)	≥ 50 mJ per cavity		
Pointing stability	< 100 μrad		
Cooling	Air and water		
Power	Single Phase, 200-240 VAC		
<b>Light Sheet Optics (Qty: 1 No)</b>			
Wavelength	532 nm		
AR coating	532 nm		
Working distance	500-2000 mm or longer		
Coating damage threshold	≥ 5 J/cm <sup>2</sup> @ 532nm		
Field of illumination	400 x 400 mm		
<b>Guiding arm (Qty: 1 No)</b>			
Arm length	1.8 m		
Rotation angle	360°		
Transmission efficiency	≥ 85%		
Damage threshold	5J/cm <sup>2</sup> @ 532nm		
Mirror reflectivity	≥99%		
<b>ELIGIBILITY</b>			
The bidder/OEM should have supplied at least 3 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 / IIT at its own discretion may seek opinion of the customer, based on which the vendor's offer may be accepted or rejected			
The company should not have been banned/suspended/blacklisted for any reason by any Government Organization/PSU/CSIR lab in last 3 years - Bidders should provide a self-declaration ( <b>Annexure-IV</b> ) for this point on the company letterhead along with Seal, sign & date.			
Company should be registered in India for last 3 year. Proof of company registration should be enclosed.			
The bidder should have 50 lakhs turnover in any one of the last 3 Financial Year.			

**(Note: It is mandatory for the bidders to provide the compliance statement (comply/not comply) for the Above points with document proof as required). If the compliance statement (comply/Not comply) is not furnished for the evaluation. Bidders will be disqualified.**