

TECHNICAL BID PROFORMA
Item Name: “2D PDPA/PDI/PDA ”

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:

Technical specifications required for one unit of 2D PDPA/PDI/PDA with signal conditioner
Specifications: -

S. NO	Technical Specifications	Complied / Not Complied	Reference Page No.
1	Particle/droplet velocity and size measurement based on light Interferometry and phase doppler principles.		
2	Velocity measurement: Two components of velocity with a measurement range: -25 m/s to +100 m/s		
3	Droplet size measurement range: 0.5 to 500 µm.		
4	Accuracy of velocity and size measurements should be within ± 1% of actual reading.		
5	Capable of operating in both forward and backward scatter modes.		
6	Type of Laser: Diode Pumped Solid State Laser.		
7	Laser Power: For first component of velocity greater than equal to 300mW and for second component of velocity greater than equal to 200mW		
8	Three transmitter lenses of focal lengths: (1) within the range 300 to 350 mm, (2) within the range 500 to 550 mm (3) within the range 700 to 800 mm.		

9	Two receiver lenses of focal lengths: (1) within the range 500 to 550 mm (2) within the range 700 to 800 mm		
10	Data acquisition rate: upto 100kHz.		
11	A PC based software interface with graphical user interface (GUI) for instrument management and monitoring, data acquisition and validation.		
12	The complete instrument should include Laser modules, optical transmitter and receiver with lenses, signal processors and system software		

Sl.No.	Other Requirements	Complied / Not Complied	Reference Page No.
1	Warranty: Minimum One year and Extended 2 Years warranty from the date of installation.		
2	Installation and service: Onsite (IIT Madras) installation and commissioning.		
3	Training on the operation of the system should be provided.		

(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**