

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY MATERIALS MANAGEMENT DIVISION Powai, Mumbai 400076.

PR No. 1000034684 Rfx No. 6100001571:

<u>Detailed Technical Specifications of Particle Image Velocimetry(PIV) System</u> (Qty: 1 Nos):

Sr. No.		Compliance (Yes/No)
1	The PIV system(2D) should include the following components: 5W	
	continuous laser, Light sheet optics, CCD camera, Lenses,	
	Synchronizer, PIV Software, Tracer particles	
2	System needs to work in PIV mode in double pulse with continuous	
	laser able to be modulated to generate double pulses for PIV mode	
3	Light sheet optics should have variable focus from 0.3 to 3 m.	
4	CCD or CMOS camera with double exposure (PIV) mode (at least	
	4 megapixels, 40 frames per second, with minimum 5 µm sensor	
	size and sensor well capacity of at least 20,000 e-)	
5	2 Lenses should be provided: 50mm standard lens for use in PIV	
	mode and100mm MACRO lens allowing the use of micro PIV mode	
6	Appropriate seeding particles with minimum 10 µm size for use in	
	water should be provided, including 2 μ m fluorescent particles for	
	micro PIV mode	
7	Appropriate PIV software should be provided with multi-pass,	
	multi-grid, window deformation techniques, batch processing and	
	GPU support for acceleration and parallel processing.	
8	Warranty: 24 months without extra charges.	