



Indian Institute of Technology Madras

I.I.T.P.O., MADRAS-600 036

STORES & PURCHASE SECTION

Form for Inviting Quotations

Ref.No.

Date: 26.07.2016

CHE	2016	002	STORES
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Under Certificate of Posting

DUE DATE: 16.08.2016

Dear Sirs,

1. Quotations are invited in duplicate for the various items shown below / overleaf / Enclosed list.
2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms : Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later

Yours faithfully

Dr. R. RAGHUNATHAN
Professor, Department of Chemical Engineering
IIT Madras, Chennai 600 036

Specifications enclosed

Sealed quotes (technical bid and price bid separately sealed) are invited for a highspeed camera for microfluidic applications.

We are interested to buy a high-speed camera that has to be attached to a microscope through a C mount adapter to capture the motion of droplets in microchannels.

The specifications required are given below.

Application	Droplet Microfluidics Experiments
Imaging device	1 MP CMOS Sensor TE cooling for the sensor Dynamic range-at least of 57.7 dB
Maximum Resolution	At least 1280 x 800
Individual Pixel size	20 x 20 micrometers
Pixel depth	12 bit
Light sensitivity	Colour- 2000(T) , 2000(D)
Frame rate required	1600 fps @ 1280 x 800 5000 fps @ 680 x 480
Exposure time	2 microseconds minimum
Memory	6 GB
Recording time at max fps at max resolution	At east 2.5 seconds at maximum fps at full resolution
Microscope attachment	C mount
Software interface	Matlab, LabView..etc

The quotation will be rejected if any of the above specifications is not met.

Please fill the table shown below. Put '✓' if the specification is provided in the highspeed camera and put '✗' if the specification is not provided in the highspeed camera.

Imaging device	1 MP CMOS Sensor	
	TE cooling for the sensor	
	Dynamic range-at least of 57.7 dB	
Maximum Resolution	At least 1280 x 800	
Individual Pixel size	20 x 20 micrometers	
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Light sensitivity	Colour- 2000(T) , 2000(D)	
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Memory	6 GB	
Recording time at max fps at max resolution	At least 2.5 seconds at maximum fps at full resolution	
Microscope attachment	C mount	
Software interface	Matlab, LabView..etc	