

1. High-speed Camera

Tender is invited for the procurement of High speed camera with the following specifications.

Requirements

High speed camera to capture microfluidic phenomena.

| Specification | Value |
|----------------------|--|
| Resolution | 2048 x 1920 at 6600 fps 1920 x 1080 at 12500 fps |
| Sensor type | CMOS Sensor |
| Sensor Size | 27 mm x 26 mm (minimum) |
| Exposure | 1 μ s minimum exposure standard |
| Memory | 72 GB |
| Signaling | Programmable I/O Ports |
| Maximum fps | 120,000 (Standard Mode) - minimum 260,000 (High Speed Mode) - minimum |
| Pixel Size | 15 μ m – Standard Mode (Maximum) |

Mandatory conditions

- 10 GB Ethernet cable must be included
- Sensor should have 12-bit depth
- Should have a minimum 7 seconds records time at maximum frame rate with 2048 x 1952 resolution
- Programmable trigger location should be provided
- Camera Control software should be included
- Should include standard power supply mechanism

Other Essential requirements:

- System should work with standard 220VAC, 50Hz (Indian condition)

General Terms & conditions

- Service Personnel to provide efficient local service support with at least 2 Service engineers. The training certificate from the manufacturer should be provided to prove the capability of the service engineer
- System must have installation and on-site training included
- Compliance statement should be enclosed with the quotation.
- Vendor should provide performance certificate from the previous supplier.

Warranty

- Minimum warranty period: 1 year

Support and Service

- Technical support should be available preferably through Indian counterparts
- AMC prices if any should be quoted herein.

Training

- Training on this system should be provided free of any additional cost

Shipping and Handling

- FOB prices should quoted with
- Insurance
- Delivery time.

General Terms & Conditions:

- The vendor should have supplied a system of a similar or a higher specification to Indian institutes like IITs, etc. or, to a reputed foreign institute in the last 5 years. The vendor should provide the contact details of the user of such a system. The vendor should provide proof of installation and maintenance of such systems. Proof can be provided as reference letters from the users of the systems.
- The above should be provided for at least one other instance.