

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY

MATERIALS MANAGEMENT DIVISION Powai, Mumbai 400076

Purchase Requisition No. 1000012121 (SRM/RFX No. 6100000195)

Technical Specifications of High Speed CMOS Camera with LED Backlighting

The proposed camera will be utilized for observing formation of sprays at high speeds. It should meet (or exceed) the following minimum specifications

Minimum qualifications

- 1 | High Speed CMOS camera
 - ISO Monochrome: 16000T/6400D/ISO64000
 - Active pixels: At least 1 MegaPixel
 - Pixel size: 20 x 20 um
 - Frame rate at 1 Mega Pixel: At least 7500 fps
 - Quantum efficiency: at least 50%
 - Global Electronic Shutter: less than or equal to 1 microsecond (independent of frame rate)
 - Digitization: 12 bit
 - F-mount with adapter for C-mount lens
 - 18 GB RAM, upgradable up to 72 GB
 - Accompanying software should give full control of the camera
- 2 LED backlighting
 - White LED
 - 200mm x 200mm of active light area
 - Color Temperature: 5700 °K
 - Luminescence minimum 80000 cd/m² in continuous mode

Live demonstration of camera is a must for technical evaluation