Specifications of High Speed Camera for Motion Analysis in Precision Agriculture Applications

Full frame performance	1800 fps at 1280×1024 pixels or more
Sensor Specifications	CMOS sensor 1280 x 1024 pixels 5.6 µm pixel size or Better 12-bit depth ISO Monochrome 2500D; 5000T
Memory capacity	8GB or more
Minimum exposure	5 µs minimum exposure or Better Auto Exposure
Supported File Formats	RAW, AVI, MOV, BMP, TIFF, JPEG and Standard formats
Supported OS	Microsoft Windows operating system including: 7, 8, 8.1, 10 (32/64-bit)
Software	For triggering and analysis Basic measurements in motion analysis like Distance, Speed, Acceleration, Angles and Angular Speed APIs/C++ and wrapping for Labview and Matlab
Triggering	Programmable trigger location (pre/post trigger recording) Image-Based Auto-Trigger standard Trigger from software/Hardware trigger Trigger mode: Selectable positive or negative TTL 5Vp-p
Camera Control Interface	High-Speed Gigabit Ethernet, with suitable connectors
Special Features	• Segment memory for up to 63 or more • Continuous recording • Event marking • Frame timestamp
MultiLED Light	20 number , 84 watts, 24volts or Better
Accessories	Camera stand, light stand, mounts, adapters, Power supply, all necessary cables and Transportation Case etc.

Warranty	1 year or more
Installation and training	On site

GENERAL REQUIREMENTS:

a. Integrated system only will be acceptable.
b. Full literature with appropriate references should be provided to support technical offer.
c. Advanced onsite training to be provided for a period of 3 working days
d. The manufacturer should provide a free comprehensive onsite warranty of at least 01 years after commissioning.
e. Essential spares to be provided for 3 years of operation.
f. The supplier shall provide detailed application notes, manuals, user instruction, operation, troubleshooting manual
g. Estimated cost of post warranty Annual Maintenance Cost (AMC) of the system is to be provided for the subsequent years, shall be quoted separately.