

## MAIN COMPONENTS

The major plant components/equipment comprise of the following:

Si. No.	Main Component/Equipment	Unit	Quantity
1.	High Speed Infra-Red camera with accessories	No.	1

## TECHNICAL SPECIFICATIONS FOR High Speed Infra-Red camera with accessories

Sl. No.	DESCRIPTION	REMARKS
<b>A</b>	<b>HIGH SPEED INFRA-RED CAMERA</b>	
	Type	Infra-Red
	Spectral range	0.8 – 10.0 $\mu\text{m}$
	Resolution	0.3 MP (640 * 512) or more **Flexible Resolution Adjustment
	Frames per second (fps)	Maximum fps at full scale resolution (520 fps or more) **Flexible fps Adjustment
	RAM Storage	16 GB
	Internal Storage	512 GB to expandable supported option for maximum capacity to support full frame.
	Integration time	**Suitable integration time to ensure sufficient response at low temperatures
	Pixel size	18 $\mu\text{m}$ or less
	Thermal Sensitivity / NETD	<20 mK
	Trigger option	**Suitable hardware as well as software trigger with multiple camera connectivity and simultaneous triggering option.
	Focusing	Auto focusing as well as manual focusing.
	Data transfer	**Suitable integrated hardware to transfer data from IR high speed camera
	Environmental Operating Temperature	0 – 50 $^{\circ}\text{C}$
	Scanning area working fluid temperature	-10 to 200 $^{\circ}\text{C}$
	Accuracy	1% of least count
<b>B</b>	<b>LENS</b>	
	Lens diameter	** 17-100 mm
	Lens Mounting	** 2* ¼ in. -20 1*3/8 in.-16 4*#10-24 Side:3*1/4 in.-20(each side)
<b>C</b>	<b>ACCESSORIES</b>	
	Integrator link	**Suitable computer integrator adaptor or link for data

		transfer.
	Camera mounting stand	**Suitable mounting stand (Tripod, optical table mounting system, etc.)
	Integration software	User friendly Graphical User Interface (GUI) based software to control the camera, data transfer and analysis.
<b>E</b>	<b>WARRANTY</b>	Minimum one year warranty period from the date of installation.
		5 years AMC period required upon completing the warranty period. (optional)
<b>F</b>	<b>Eligibility Criteria</b>	a.Should have Supplied to any IIT in India & details to be provided. b. Reputed Make

\*\* - Bidder to specify in their offer

**Note:** *All the technical parameters are indicative value, Bidder will be designing and specifying in their offer.*