

**Ref: CSIO19122025MLP003033****Subject: Procurement and Installation of Cameras as per the details given below:**

Sr. No.	Item Description	Qty
1.	Optical PTZ Networked Camera (As per specification sheet)	2
2.	Optical Fixed Fisheye Networked Camera (As per specification sheet)	1
3.	Optical Dome IP Camera (As per specification sheet)	2
4.	10-Port Gigabit Desktop Switch with 8-Port POE+	1
5.	16 Channel PoE+ Network Video Recorder with 4TB Hard Disk	1

**Additional Installation Accessories**

Sr. No.	Item Description	Qty
1.	Ethernet cable CAT6e	600m
2.	Camera Junction Box for individual cameras	5
3.	RJ Connector	30
4.	Rack 4U	1
5.	Extension Board with Spike Guard (5m)	4
6.	HDMI cable 3m 4k	1

**Note:** Three cameras need to be installed at a distance of ~40 mtrs from the NVR, and 2 camera needs to be installed at a distance of ~80 mtrs from the NVR. The supplier needs to consider the cost of installation and additional required accessories needed for complete operation of the equipment.

The budgetary quotation by the interested firms can be submitted through e-mail to the undersigned (jatin.sharma.csio@csir.res.in) on or before 24.12.2025, 5.00pm.

Other terms & Conditions:

1. Delivery: F.O.R CSIO Chandigarh
2. Payment terms: Within 30 days after Delivery

Jatin Sharma  
Technical Assistant  
CoE-iSenS  
E-mail: jatin.sharma.csio@csir.res.in

### Camera specifications Sheet

Sl. No	Item description	Parameter	Value
1.	<b>Optical PTZ Networked Camera</b>	Image Sensor	$\geq 2$ MP CMOS
		Pan Movement	0° to 360°
		Pan Speed	$\geq 0.1^\circ$ to 260°/s configurable
		Optical Zoom	$\geq 45\times$
		Digital Zoom	$\geq 16\times$
		Focal Length	$\geq 3.95$ mm to $\geq 170$ mm
		Resolution	1920×1080 or higher
		Frame rate	$\geq 25$ fps
		Interface	RJ45
		Storage	Supports SD Storage $\geq 512$ GB
		IR Range	$\geq 300$ m
		Ruggedness	Atleast IP67
		Warranty	24 Months
2.	<b>Optical Fixed Fisheye Networked Camera</b>	Image Sensor	$\geq 5$ MP
		Lens Type	Fixed
		Focal Length	1.44 mm
		FOV	Horizontal : 180°
		Interface	RJ45
		Video Frame rate	$\geq 25$ fps
		Alarm Event	Motion detection, video tampering
		Built-in Microphone	Yes
		Storage (Onboard)	$\geq 256$ GB
		Ruggedness	Atleast IP67
		Warranty	24 Months
3	<b>Optical Dome IP Camera</b>	Image Sensor	$\geq 6$ MP
		FOV	Horizontal $> 90^\circ$
		Lens Type	Fixed
		IR Range	Upto 30m
		Focal Length	3.6 mm or equivalent
		Resolution	Upto 3200 × 1800
		Video Frame rate	$\geq 20$ fps
		Interface	RJ45
		Built-in Microphone	Yes
		Ruggedness	Atleast IP67
		Warranty	24 Months
4	<b>Software, Installation and Commissioning</b>	Software for viewing camera parameter, images, videos and settings should be provided along with OEM SDK (software development kit) / API for compatibility and integration with other customized application interface software.	