

DRAFT QR'S FOR HAND HELD ACTIVE IMAGING CAMERA

SR. NO	SPECIFICATION		
1.	<p><u>General Description</u> A, battery powered, versatile portable Hand Held Active Imaging Camera System housed in a rugged corrosion proof IP 66 enclosure with an inbuilt high performance Day/Night Camera with powerful zoom lens. Should have a capability to produce natural contrasts in low light or night conditions for visualization and location of targets, even in poor weather conditions.</p>		
2.	<p><u>Operational Characteristics Hand Held Active Imaging Camera System</u></p>		
	(a)	<p align="center"><u>Hand Held Active Imaging Camera</u></p>	
	(i)	Sensor	CCD& SCMOS sensor with full HD image quality both for day and night vision respective.
	(ii)	Video/Photo Format	HDMI,S-Video & VGA /JPEG
	(iii)	Field of view	1.8 ⁰ x 1 ⁰ (NFoV) or wide
	(iv)	Human Target Range	
		<u>Day Vision</u>	Detection: 2000m or better
			Recognition: 700m or better
			Identification: 500m or better
		<u>Night Vision</u>	Detection: 1200m or better
			Recognition: 600m or better
			Identification: 350m or better
		<u>Dark Night Vision</u>	Detection: 1000m or better
			Recognition: 500m or better
			Identification: 300m or better
	(v)	Digital Zoom	4x or better
	(vi)	Modes	Passive camera/ active illuminated/active range-gated or better
	(vii)	Eye Safety Laser Emission	Class 4 or better
	(viii)	Focus	Auto and Manual
	(ix)	Recording Time	4 Hrs or More
	(x)	Display	OLED HD Technology (Monochrome & Colour)

		(xi)	Weight	3 Kg or less including battery weight	
		(xii)	Power.		
		(a)	Battery Back up	Endurance 5 hours or more	
		(b)	Charging Cycle	Min 1000 charge - discharge cycles	
		(xiii)	Ports & Connectors	Analog and HDMI input/output ports and connectors for composite video output extend to transmitter	
		(xiv)	Carrying Case	A fully equipped and ruggedized case with roller wheels	
3.	<u>Display Characteristics</u>				
	(i)	Display	15 inch (min) sunlight readable OLED display or better		
4.	<u>Connectors</u> Suitable connectors for composite video output extend to transmitter				
5.	<u>Carrying Case</u> The equipment to be provided in suitable pelican box for ease of carriage.				
6.	<u>Tripod</u> Suitable tripod for mounting over the eqpt				
7.	<u>Literature</u> Operating and Technical literature for each discrete component of system should be in English language.				
8.	<u>Ruggedisation</u> All the eqpt should comply with Mil std 810 and IP 66 or more.				
9.	<u>Training</u> Training on complete system with its full accessories should be arranged at buyers premises. In situ training of users for minimum three days or more as deemed appropriate on operation, maintenance, fault finding and user level repairs.				

DRAFT TD'S FOR HAND HELD ACTIVE IMAGING CAMERA

SR. NO	SPECIFICATION		TRIAL METHODOLOGY
1.	<u>General Description</u> A, battery powered, versatile portable Hand Held Active Imaging Camera System housed in a rugged corrosion proof IP 66 enclosure with an inbuilt high performance Day/Night Camera with powerful zoom lens. Should have a capability to produce natural contrasts in low light or night conditions for visualization and location of targets, even in poor weather conditions.		To be physically checked by BOO
2.	<u>Operational Characteristics Hand Held Active Imaging Camera System</u>		
	(a)	<u>Hand Held Active Imaging Camera</u>	
	(i)	Sensor CCD& SCMOS sensor with full HD image quality both for day and night vision respective.	The firm should submit National/International accredited lab certificate
	(ii)	Video/Photo Format HDMI,S-Video & VGA /JPEG	To be physically checked by BOO
	(iii)	Field of view 1.8° x 1° (NFoV) or wide	SIW lab test
	(iv)	Human Target DRI Range <u>Day Vision</u> Detection: 2000m or better Recognition: 700m or better Identification: 500m or better <u>Night Vision</u> Detection: 1200m or better Recognition: 600m or better Identification: 350m or better <u>Dark Night Vision</u> Detection: 1000m or better Recognition: 500m or better Identification: 300m or better	To be physically checked by BOO in various Range.

	(v)	Digital Zoom	4x or better	Check the facility of digital zoom and measure the value as per the standard procedure
	(vi)	Modes	Passive camera/ active illuminated/active range-gated or better	To be physically checked by BOO
	(vii)	Eye Safety Laser Emission	Class 4 or better	Data sheet/ Specification sheet to be submitted by the OEM. Validity and authenticity of data sheets to be checked by BOO
	(viii)	Focus	Auto and Manual	To be physically checked by BOO
	(ix)	Recording Time	4 Hrs or Higher	To be physically checked by BOO
	(x)	Display	OLED HD Technology (Monochrome & Colour)	OEM certificate
	(xi)	Weight	3 Kg or less including battery weight	To be physically checked by BOO
	(xii)	Power		
	(a)	Battery Back up	Endurance 5 hours or more	To be physically checked by BOO
	(b)	Charging Cycle	Min 1000 charge - discharge cycles	OEM certificate
	(xiii)	Ports & Connectors	Analog and HDMI input/output ports and connectors for composite video output extend to transmitter	To be physically checked by BOO
	(xiv)	Carrying Case	A fully equipped and ruggedized pelican case with roller wheels	To be physically checked by BOO
3.	<u>Display Characteristics</u>			
	(i)	Display	15 inch (min) sunlight readable OLED display or better	To be physically checked by BOO
4.	<u>Connectors</u> Suitable connectors for composite video output extend to transmitter			To be physically checked by BOO

5.	<u>Carrying Case</u>	The equipment to be provided in suitable pelican box for ease of carriage.	To be physically checked by BOO
6.	<u>Tripod</u>	Suitable tripod tripod for mounting over the eqpt	To be physically checked by BOO
7.	<u>Literature</u>	Operating and Technical literature for each discrete component of system should be in English language.	
8.	<u>Training</u>	In situ training of users for three day on operation, maintenance, fault finding and user level rectification.	