

### Bid Document

Bid Details	
Bid End Date/Time	24-07-2020 10:00:00
Bid Opening Date/Time	24-07-2020 10:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	80 (Days)
Ministry/State Name	Ministry Of Defence
Department Name	Department Of Defence Production
Organisation Name	Indian Ordnance Factories
Office Name	*****
Total Quantity	1
Item Category	thermal imager
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No

### EMD Detail

Required	No
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### ePBG Detail

Required	No
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### Splitting

Bid splitting not applied.

### Thermal Imager ( 1 pieces )

#### Technical Specifications

[\\* As per GeM Category Specification](#)

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
LENS MEASUREMENTS FEATURES	Horizontal Field of View of Standard lens (degree)	31-35	*
	Vertical Field of View of Standard lens	20-25	*
	<b>Horizontal Field of View of Telephoto lens</b>	NA	NA
	<b>Vertical Field of View of Telephoto lens</b>	NA	NA
	IFOV of Standard lens (mRad)	NA	*
	<b>IFOV of Telephoto Lens (mRad)</b>	NA	NA
	IFOV of (Spatial resolution) (mRad)	2.09	*
PERFORMANCE FEATURES	Type	Hand held	*
	<b>Detector Resolution (minimum) (pixel)</b>	75000	75000
	<b>Temperature Range of Objects (Degree Celsius)</b>	-20 to +350	-20 to +350
	<b>Temperature measuring accuracy of reading (or better)</b>	± 2% oC	± 2% oC
	<b>Minimum Focus distance</b>	65	65.0
	Image capture frequency/ frame rate (Hz)	$N \geq 9$	*
	Image Detector Type	Uncooled focal plane array (FPA)Vox/ Asi/BST/Silicon	*
	<b>Thermal sensitivity (NETD)</b>	0.1	0.1
	User selectable Emissivity setting/correction	Between 0.01 and 1	*
	Infrared spectral band (micrometer)	Between 8 and 14	*
	Image Palettes	4	*
DISPLAY	<b>Display Type</b>	Color LCD	Color LCD

	<b>Display size</b>	8.75	8.75
GENERAL FEATURES	Image capture, review and save mechanism	One handed image capture, review and save capability	*
	Storage medium	USB stick	*
	Size of USB stick	2.8	*
	File formats	JPEG,BMP,GIF,PNG,TIFF	*
	<b>Built-in digital camera/ Visual Camera Resolution (Mpixel)</b>	$N \geq 1$	$N \geq 1$
	Details of Operating functions	-	*
	Facility for the adjustment/ selection of the time/date etc	yes	*
	Interface for image transfer	WiFi,USB Cable with suitable drivers for downloading to PC	*
	Focus	Auto	*
	other features	-	*
OPERATING CONDITION	Minimum Operating Temperature	-10	*
	Maximum Operating Temperature	50	*
	Operating Humidity (RH)	90	*
POWER REQUIREMENT	Power Requirements	Battery Operated	*
	chemistry of the battery	lithium ion	*
	Voltage of rechargeable Battery	3.7	*
	Capacity of rechargeable battery (milliAH)	2500	*
	Suitable charger/adapter provided	yes	*
	Battery Backup	4	*
	Power Management	Automatic shut down /User Selectable	*
	On-screen battery level indicator	yes	*
CERTIFICATION & SAFETY	IP Protection	IP54	*
	Safety certification	UL,CE	*

GENERIC	Size/ dimension	-	*
	Weight (including batteries)	0.51	*
	Automatic active temperature stabilization system of camera	yes	*
	Provision for through-the-lens direct temperature measurement capability	yes	*
TEST REPORT DETAILS & TESTS	The equipment supplied with calibration certificate	yes	*
	conformity to Dry Heat for 16 hrs at a maximum temp in accordance with IS:9000/part-3/section-5/1977 latest	Yes	*
	conformity to Cold Test for 4 hrs at a minimum temp in accordance with IS:9000/part-2/section-4/1977 latest	Yes	*
	conformity to Damp Heat (Cyclic) Test for 2 Cycles of 24 h each at a temp of 40 degree C & 95% RH	Yes	*
	Availability of the test report from Central Govt/ NABL/ ILAC accredited lab to prove conformity to the specification	Yes	*
	Test Report Number and date for the specification test (not a part of biddable parameter)	-	*
	Name and address of the Lab for the specification test (not a part of biddable parameter)	-	*

\* Specifications highlighted in bold are the Golden Parameters.

\* Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement ( allowed Values) by the Buyer.

**Additional Specification Documents****Consignees/Reporting Officer and Quantity**

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	*****	*****KOLKATA	1	15

**Bid Specific Additional Terms and Conditions**

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods

[This Bid is also governed by the General Terms and Conditions](#)

**---Thank You---**