

SPECIFICATION OF THERMAL WEAPON SIGHT FOR GPMG 7.62x51mm

S. N	DESCRIPTION	SPECIFICATION
1.	<b>General:</b>	The thermal weapon sight will be used to engage with lightweight LMG/MMG/GPMG 7.62X51mm weapons to enhance target engagement during day and night alike and under a wide variety of conditions.
2.	<b>Ruggedness:</b>	System should be ruggedized as per latest Mil-Std 810G in respect of High & Low temperature, humidity, shock, vibration, and bump supported by National/International accredited lab certificate Ruggedized container for transportation.
3.	<b>Operating Temperature</b> <b>Storage Temperature</b>	-20° C to +55° C -30° C to +65° C
4.	<b>Encapsulation</b>	IP67 and Nitrogen purged
5.	<b>Carrying case</b>	A ruggedized Polypropylene shockproof container is compliant to JSS55555/Mil-std-810G or better for transportation. An additional soft carrying case with a shoulder strap to be provided. Firm to provide test certificate.
6.	<b>Miscellaneous</b>	a) Technical manual / operational manual should be provided. b) One spare Eye guard and OG cover and two sets of cells/battery should be provided with each sight.
7.	<b>THERMAL WEAPON SIGHT</b>	
a.	<b>Field of View (FOV):</b>	Not Less than 8°x6°
b.	<b>Weight:</b>	Should be light in weight – max 2Kg including the weapon mount, battery, OG guard and eye guard
c.	<b>Range:</b>	Detection of single man – 1800m Recognition of single man - 300m (Recognition: silhouette of the person standing should be easily made out)
d.	<b>FPA Resolution</b>	640x480
e.	<b>Pixel Pitch</b>	12um
f.	<b>Spectral Range</b>	8-14um
g.	<b>Frame Rate</b>	50fps
h.	<b>Polarity</b>	Should feature black hot, white-hot and Edge Detect
i.	<b>Reticule</b>	The reticule should have markings for GPMG 7.62x51mm (M80 Ammunition) up to 1000m. It should have an inbuilt system for marking range.

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n.	Start-up Time	Ready time from power off mode: 10sec or less
l.	Display Resolution	1280x720 (min)
m.	Electronic Zoom	It should feature digital zoom up to 4X or More
n.	Weapon Mount	It should feature a quick release mount to attach/detach on the weapon on a MIL-STD-1913 Picatinny rail
o.	Diopetre adjustment	+/- 2D
p.	The Sight should have a mechanism for:	a) On / Off b) Brightness / Contrast Control
q.	1) Battery	Commercially available rechargeable Li-ion battery.
	2) Battery Charger	It should feature a battery charger with 110-220V AC and 12V DC power adaptor.
	3) Battery Status Indicator	The system should display battery status real-time on its Screen with low battery indication.
	4) Battery Efficiency	The Sight should remain fully operational on single/set of cell/battery for not less than 6 hours.

Note:-

Vender to offer TI sight which has been successfully technically accepted by Indian Army for MMG (7.62x51mm, M80 Ammunition) and to produce requisite documents evidence in this regards. Vender should have capability to comply Make in India norms.

WM/DDO

HOS/DDO

GM/P

GM/P

ED Approval on notify taken already. For n.a. 13.

The specifications may kindly be approved for issuing T.F.

10/10/2022.