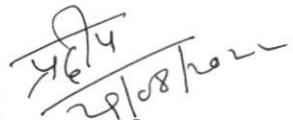




मुख्यालय राष्ट्रीय सुरक्षा गारद
(संभरण शाखा : ऑर्डनेंस अनुभाग)

मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी)
के मसौदे को गृह मंत्रालय की वेबसाइट पर डालना

1. कृपया गृह मंत्रालय, पीएम डिविजन के पत्र सं. IV-24011/12/2011-Prov.I दिनांक 05 अक्टूबर 2016, पत्र सं. IV-24011/12/2011-Prov.I दिनांक 13 जून, 2012 और पत्र सं. 11012/02/2009-Fin-I/Prov-I-17 दिनांक 02 जनवरी, 2018 का संदर्भ लें।
2. मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) में संशोधन के लिए तकनीकी विशेषज्ञों के उप समूह की बैठक मुख्यालय राष्ट्रीय सुरक्षा गारद में दिनांक 12 अगस्त 2022 को 1100 बजे आयोजित हुई।
3. बैठक के दौरान उप समूह ने कहा कि विक्रेताओं की टिप्पणियों/सुझावों को आमंत्रित करने के लिए मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे को 15 दिनों के लिए राष्ट्रीय सुरक्षा गारद के साथ-साथ गृह मंत्रालय की वेबसाइट पर डाला जाए।
4. पीएम डिविजन के उपर्युक्त संदर्भित पत्रों के अनुसार मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) का मसौदा संलग्न परिशिष्ट के अनुसार गृह मंत्रालय की वेबसाइट पर डालने हेतु प्रिंटेड कॉपी तथा सॉफ्ट कॉपी में भेजा जा रहा है।


(पी0सी0 शर्मा)
ग्रुप कमांडर

संलग्नक : उपर्युक्त

वरिष्ठ तकनीकी निदेशक, रूम न0-10, (IT Cell), एनआईसी, नार्थ ब्लॉक, नई दिल्ली

Email : soit@nic.in

पी/604/19/389/Miniature/संभरण(ऑर्डनेंस)/एनएसजी/

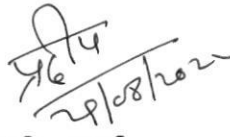
दिनांक : अगस्त 2022

मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर)/परीक्षण निर्देशों (टीडी)
के मसौदे पर विक्रेताओं की टिप्पणियों का आमंत्रण

1. आपको सूचित किया जाता है कि मिनिएचर थर्मल वेपन साईट के गुणात्मक आवश्यकता (क्यूआर) और परीक्षण निर्देशों (टीडी) के मसौदे पर फर्मो/विक्रेताओं की टिप्पणियां आमंत्रित हैं। सभी फर्मों से निवेदन है कि नीचे दिए गए प्रारूप में वे अपनी टिप्पणियां भरकर ई-मेल पता scord@nsg.gov.in या gcproc@nsg.gov.in पर भेजें।

गुणात्मक आवश्यकता (क्यूआर)	परीक्षण निर्देश (टीडी)	फर्म द्वारा टिप्पणियां
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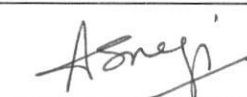


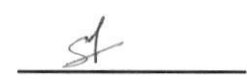
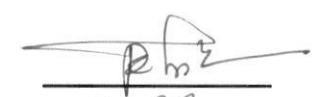
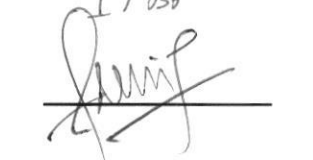
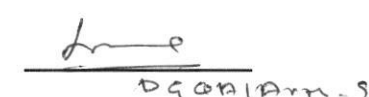

2. आपसे अनुरोध है कि वेबसाइट पर प्रदर्शित होने की तारीख से 15 दिनों के भीतर अपनी टिप्पणियां भेजें। उप समूह कमेटी की बैठक में उपर्युक्त उपकरण/हथियार के गुणात्मक आवश्यकताओं/परीक्षण निर्देशों को अंतिम रूप देने पर विचार किया जा रहा है।


(पी०सी० शर्मा)
ग्रुप कमांडर

दिनांक : 28 अगस्त 2022

DRAFT QRS & TDS OF MINIATURE THERMAL WEAPON SIGHT : 12 AUGUST 2022

Ser No	Parameters	Qualitative Requirements	Trial Directives
1.	General	A miniature thermal weapon sight is a light weight and small military standard rugged sight, which is compliant with mil std 1913 picatinny rail.	To be physically checked by board of officers.
		(Optional feature) Miniature thermal sight should be compatible with Reflex/ holographic/ day sight as a clip on feature. (To be specified by user at the time of tender)	To be physically checked by board of officers.
		Integrated Laser Pointer(Visible).	To be physically checked by board of officers.
2.	Non Uniformity Correction (NUC)	Sight should have manual and automatic (shutter less technology) feature in it.	Firms to provide OEM certificate in this regard and BOO to physically check the NUC feature.
3.	Field of View	12 degree x 08 degree min.	OEM to provide certificate in respect of the same. BOO to physically check the parameter at SIW, BSF or any other Indian government agency.
4.	Resolution	640 x 480 or better with 12 micron or better	OEM of microbolo meter to provide certificate in respect of the same. BOO to check the certificates.
5.	Diopter Adjustment	+2D to -2D or better	To be physically checked by BOO at SIW, BSF or any other govt agency.
6.	OLED Resolution	640x480 or better.	OEM certificate in respect of the same.
			BOO to check the certificates..







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Ser No	Parameters	Qualitative Requirements	Trial Directives
7.	Spectral Range	8 to 14um.	OEM certificate in respect of the same. BOO to check the certificates.
8.	Sensor / Detector	12 micron detector or better	OEM of microbolo meter to provide certificate in respect of the same. BOO to check the certificates.
9.	Frame Rate	50 fps or better.	Firm to provide OEM certificate in respect of the same.
10.	Electronic Zoom	Should have following modes 1x2x4.	To be physically checked by board of officers.
11.	Bty Charger	<ul style="list-style-type: none">• A universal charger operating between 100V to 270 V AC main and 12 to 48 V DC (entire range).• Should be able to charge battery fully in less than 4 hrs.• The charger should be able to show the charging status of battery alongwith an auto-cut system to avoid over charging.	To be physically checked by board of officers.
12.	Battery	Commercially available rechargeable lithium based battery with min endurance time of 6hrs on single/set of battery.	To be physically checked by board of officers.

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Ser No	Parameters	Qualitative Requirements	Trial Directives
13.	Range	<ul style="list-style-type: none"> Detection – 200m. Recognition –100m 	<ul style="list-style-type: none"> Detection – Detection of any standing/moving target at 200m. Recognition– Recognition of standing/moving human target at 100m. <p>BOO to physically check the same..</p>
14.	Reticle polarity	Sight should have dual colour(Black/ White) digital reticle or better.	To be physically checked by the BOO.
15.	Size	Max 130 x 90 x 65 mm without eye piece cover and OG cover.	To be physically checked by board of officers.
16.	Weight	Max 500 gm (with battery and mounting adapter, OG cover and Eye cup)	To be physically checked by board of officers.
17.	Locking Mechanism	<p>(a) It should have locking arrangement for quick attachment and detachment. Time < 1 min.</p> <p>(b) It should have a rugged locking mechanism compatible with Mil Std 1913 rail.</p>	To be physically checked by board of officers.
18.	Operational Switches	Brightness control, contrast control, Black hot & white hot, NUC, Laser on/off, reticle toggle option.	To be physically checked by board of officers.
19.	Ruggedness	<p>QR:-</p> <p>(a) Weapon system should be ruggedized as per latest mil Std 810H or JSS 5555/JSS 5855for following test :</p> <ul style="list-style-type: none"> -Shock. -Vibration. -Bump. -Thermal shock. -Humidity. -Low pressure(altitude) <p>(b) Should be IP-67 complied.</p> <p>(c) Should be able to withstand sustained firing with the weapon without any effect on zeroing optics of sight after firing 100 rds in burst mode</p>	<p>Certificate from by Indian Govt lab/ National accredited lab certificate</p> <p>BOO to physically check the same with the weapon at firing range.</p>







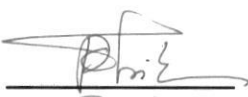





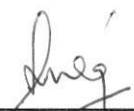



Ser No	Parameters	Qualitative Requirements	Trial Directives
20	Operating Temperature	-30 ⁰ C to +50 ⁰ C(+3 ⁰ C)	Test Certificate from Indian Govt lab/ National accredited lab certificate
21.	Storage Temperature	-40 ⁰ C to +50 ⁰ C(+3 ⁰ C)	Test Certificate from Indian Govt lab/ National accredited lab certificate
22.	Black Hot White Hot Mode	The equipment must work effectively and be successfully be able to show image in Black hot and white hot mode	To be physically checked by board of officers
23.	Spare Battery	For Cycle of operation It must provide 02 x set spare battery	To be physically checked by board of officers.
24.	Warranty min 02 years & shelf life of 10 years.	An undertaking in this regard must be obtained by the firm	Warranty of min 02 year and shelf life of 10 years
25.	Reticule	Fine cross hair with centre Dot and Stadimetric scale capable to zero the weapon in azimuth & elevation with resolution upto cm level on target. There should be facility of changing the colour of the reticule. The reticule pattern for 25m, 100m and 200 metres should be provided.	Switch on the equipment and observe for reticule pattern confirmation with the facility of changing colour. Three different reticules i.e. 25, 100 and 200 metre should be physically checked by BOO.
26.	Focusing	10 m to Infinity	To be physically checked by board of officers.
27	Visibility	Must be able to penetrate through fog, smoke, rain, thick foliage and complete darkness	To be physically checked by board of officers.
28.	Technical Literature	User Hand-book, operating manual and technical manual to be provided.	To be physically checked by board of officers.
29.	Initialization Time	Time <10Secn	To be physically checked by board of officers
30.	Spare part list	Illustrated spare part list along with photograph and cat part number to be provided.	To be physically checked by BOO.
31.	Training : Operational & Repairs	(a) Operational user training for 3 days to be provided for at-least 50 persons at location decided by indenter. (b) Base level Repair and maintenance training should be provided at-least to 5 technicians on 100 equipment for 1 week at firm premises.	Firm to provide OEM certificate for the same.

Ser No	Parameters	Qualitative Requirements	Trial Directives
32.	Minimum Resolvable Temperature Difference (MRTD)	Value to be specified by the OEM of the equipment	OEM to provide CoC(Certificate of Confirmation) for the same and BOO to check correctness of the certificates.
33.	Low Battery Indicator	Low Battery indication status to be displayed on OLED/screen.	To be physically checked by BOO.
34.	<p>Firing Accuracy</p> <p>(a) Wpn types will be informed by User at Tender stage.</p> <p>b) Amn to be provided by User for Zeroing & Test fire.</p>	<p>a) Zero the sight with the weapon at 25m.BoO to check the sight for the facility provided to electronically shift the aiming dot in azimuth and elevation as per the requirement.</p> <p>(b) Three different reticules i.e. 25, 100 and 200 metre should be physically checked and their accuracy shall be checked by test fire (10 Rds per target).</p> <p>(i) For 9mm caliber weapons, accuracy shall be checked by test fire at 25 & 50m ranges.</p> <p>(ii) For 5.56mm/ 7.62mm caliber weapons, accuracy shall be checked at 100m &200m ranges.</p> <p>(c)The weapon should be able to engage figure 11 target with min 50% hits (i.e 5 out of 10 rounds).</p> <p>To be physically checked by board of officers</p>	To be physically checked by BOO.

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Ser No	Parameters	Qualitative Requirements	Trial Directives
35.	Misc (To be specified by User if required)	(a) Purging kit to be provided by the firm. (Quantity to be decided by User at tender stage) (b) Acceptance Test station for Base level repair to be provided by Firm. (Quantity to be decided by User at tender stage)	
36.	Carrying Case	(a) Soft Carrying Case : Firm to provide a soft carrying case complied to IP 55 STD along with each sight. (b) Hard Carrying Case : Firm to provide a rugged hard carrying case, which will sustain a drop test from 3m height on a hard surface. No deformation and breakage of box is acceptable. Sight to be checked for operational use post drop test.	Firm to provide National/NABL accredited lab cert for Soft carrying case and BOO to physically conduct the Drop Test for Hard carrying case.

<hr/>	 A.S. NEGI (AC/EXE, CISF)	 Vinay DC (CEPF)	 ITBS RAMCHARAN SINGH (Ac/AD)	 C.V.K. Sharma DC/OP/Arm-S
 (JP DOHRA) DNQA (Amg)	 Sanjosh Kumar (DC, SSB)	 ST	 Maj Anil Dhoon HQ MSG	 Capt SP Singh 52 SAG, NSG