

संख्या. पी-63013/109/03/2022/मोड-1/सीसुबल 804-13

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली-03

दिनांक 14 मार्च 2023

सेवा में,

महानिदेशक :- आसाम राईफल (through LOAR) , केन्द्रीय ओद्योगिक सुरक्षा बल,
केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा सुरक्षा बल,
राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषय :- अनुमोदित गुणात्मक आवश्यकता/ परीक्षण निर्देशों का प्रेषण।

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये पुनः सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित "Thermal Weapon Sight" उपकरण के पुनः सूत्रीकरण गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

इन्द्र देव सिंह
14/3/23
(इन्द्र देव सिंह)
उप महानिरीक्षक (रसद)

प्रतिलिपि:-

1. तकनीकी निदेशक : आपसे अनुरोध है कि उक्त उपकरण के पुनः सूत्रीकरण
The Technical Director गुणात्मक आवश्यकता/परीक्षण निर्देशों को गृह मंत्रालय की
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ वैबसाईट [MHA website Division of MHA+ -Police
ब्लाक, गृह मंत्रालय, नई दिल्ली Modernization Division- Qualitative Requirements-
NIC, North Block, MHA Qualitative Requirements of Machinery & Eqpt Items
New Delhi (द्वारा ई-मेल) with Surveillance item] पर अपलोड करें एवं उक्त
(ई-मेल पता: mpsugandhi@nic.in) उपकरण के पुराने गुणात्मक आवश्यकता/ परीक्षण निर्देशों
जोकि गृह मंत्रालय की वैबसाईट [MHA website
Division of MHA+ - Police Modernization Division -
Qualitative Requirements- Qualitative Requirements of
Machinery & Eqpt Items with Surveillance item] कम
संख्या-99 पर अपलोड है को हटाने का श्रम करे।
2. SO (IT), North Block, MHA : कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करे।
(Through E-mail)
(E-mail address: soit@nic.in)
3. तकनीकी विंग, सीमा सुरक्ष बल : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक
आवश्यकता/ परीक्षण निर्देशों को सीमा सुरक्षा बल की
वैबसाईट पर अपलोड करने का श्रम करें।
4. फाईल

S/ N	Parameters	Qualitative Requirements	Trial Directives	Result expected/ desired
			BOO to physically check the same.	
8.	Weight	(i) LMG version - Maximum weight should not be more than 1 kg with battery and mounting adapter, OG cover and Eye cup. (ii) Rifle version - Maximum weight should not be more than 750 gm with battery and mounting adapter, OG cover and Eye cup.	To be physically checked by board of officers.	It should be as per specification mentioned in the QRs
9.	Diopter Adjustment	-4D to +2D or better	To be physically checked by BOO at SIW, BSF or any other Govt. agency.	It should be as per specification mentioned in the QRs
10.	OLED Resolution	800 x 600 or better	OEM certificate in respect of the same. BOO to check the certificates.	It should be as per specification mentioned in the QRs
11.	Spectral Range	8 to 14 μ m.	OEM certificate in respect of the same. BOO to check the certificates.	It should be as per specification mentioned in the QRs
12.	Sensor/ Detector	12 micron detector or better. (Micro bolometer or better technology)	OEM of micro bolometer to provide certificate in respect of the same. BOO to check the certificates.	It should be as per specification mentioned in the QRs
13.	Frame Rate	50 fps or better.	Firm to provide OEM certificate in respect of the same.	It should be as per specification mentioned in the QRs
14.	Eye Relief	Not less than 50mm	To be physically checked by board of officers.	It should be as per specification mentioned in the QRs
15.	Electronic Zoom	Should have following modes 1x, 2x and 4x.	To be physically checked by board of officers.	It should be as per specification mentioned in the QRs
16.	Reticule (User will define the weapon and caliber for which they are procuring the TI sight	(i) Fine cross hair with Centre Dot and stadimetric scale capable to zero the weapon in azimuth & elevation with resolution up-to cm level on target. There should be facility of changing	Switch on the equipment and observe for reticule pattern confirmation with the facility of changing colour. Three different reticules i.e. 100, 200 and 400 meter should be physically checked by BOO for	It should be as per specification mentioned in the QRs

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S/ N	Parameters	Qualitative Requirements	Trial Directives	Result expected/ desired
	at the time of tender.)	<p>the color of the reticule.</p> <p>(ii) The reticule pattern 200m, 400m and 600 meters should be provided for LMG version.</p> <p>(iii) The reticule pattern for 100m, 200m and 400 meters should be provided for rifle version.</p>	rifle version and 200, 400 and 600 meter for LMG version.	
17.	<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 100 m. Reasonable time to be given to firms for zeroing.</p> <p>b) After zeroing, sights to be checked by firing at 100, 200 and 400 meter range for rifle version by using respective reticules. For LMG version, sights to be to be checked at 200, 400 and 600 meter range.</p> <p>c) Their accuracy shall be checked by firing 10 Rds at 4x4 target at 100, 200 and 400 meter range for rifle version by using respective reticules. For LMG version, sights to be to be checked at 200, 400 and 600 meter range.</p> <p>d) The weapon should be able to hit min 80% shots from 100 meter range, 60% shots from 200 meter range and 50% shots from 400 meter range on 4x4 target. For LMG to hit min 80% shots from 200 meter range, 60% shots from 400 meter range and 50% shots from 600 meter range.</p> <p>To be physically checked by board of officers.</p>	To be physically checked by BOO.	It should be as per specification mentioned in the QRs
18.	Focusing	10 m to Infinity	To be physically checked by board of officers.	It should be as per specification mentioned

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S/ N	Parameters	Qualitative Requirements	Trial Directives	Result expected/ desired
		as per latest mil Std 810 H or JSS 5555/JSS 5855 for following test: - Shock test. -Vibration. -Bump. -Thermal shock. -Humidity. -Low pressure (altitude) (b) Should be IP-67 complied. (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.	BOO to physically check the (c) point with the weapon at firing range by firing 100 rounds in burst mode with small and long burst. If sights went off during firing. It should be treated as major defect and consider as failed.	in the QRs
25.	Initialization Time	Time < 30 Second	To be physically checked by board of officers. Equipment shall be ready to engage target in less than 30 seconds.	It should be as per specification mentioned in the QRs
26.	Visibility	Must be able to penetrate through fog, smoke and complete darkness	To be physically checked by board of officers.	It should be as per specification mentioned in the QRs
27.	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.	It should be as per specification mentioned in the QRs
28.	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 along-with an auto-cut system to avoid over charging. 	To be physically checked by board of officers.	It should be as per specification mentioned in the QRs

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S/N	Parameters	Qualitative Requirements	Trial Directives	Result expected/ desired
		(b)Acceptance Test station for Base level repair to be provided by Firm. (Quantity to be decided by User at tender stage)		

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 (B K Mehta),
 ADG (Log), BSF

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 20/2/23
 (Happy Verma), Comdt
 Ordnance, BSF

[Signature]
 (Ajeet Kumar), Comdt. (SIW), BSF

[Signature]
 (Dr. Raveesh Kumar), PSO(W),
 BPR&D

[Signature]
 20/02/2023
 (K Saha), Astt. Director, DCPW

[Signature]
 20-2-23
 (Subhash Gautam) IRDE, DRDO,
 Dehradun attended through VC

[Signature]
 (Vinay Verma), DC, CRPF

[Signature]
 (S P Singh), TC, NSG

[Signature]
 (Gaurav Drall), AC, SIW, BSF

[Signature]
 (Mithilesh Kumar), AC, CISF

[Signature]
 20/2/23
 (Ajay Dhyani), AC/ATO, BSF

[Signature]
 (Inspr/RM Manish Raj), SIW, BSF

[Signature]
 (Inspr/Tele Kapoor Singh), ITBP

[Signature]
 (Nb/Sub D P Mishra), Assam
 Rifle

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 (ASI/Comn R K Swami), SSB

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Approved/Not approved

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 Director General
 Border Security Force