

संख्या. पी-63013/114/03/2024/मोड-1/सीसुबल/1655-59

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 6 जून 2025

सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय औद्योगिक सुरक्षा बल,  
केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा 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 सूत्रीकरण एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित "Laser & IR Illuminator" उपकरण के संसोधित गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

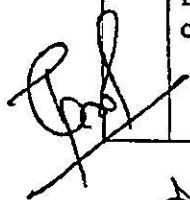
आनन्द सिंह  
(आनन्द सिंह तक्षक) 6/6/25  
उप महानिरीक्षक (रसद)

प्रतिलिपि :-

- तकनीकी निदेशक  
The Technical Director  
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लॉक,  
गृह मंत्रालय, नई दिल्ली  
NIC, North Block, MHA  
New Delhi (द्वारा ई-मेल)  
(ई-मेल पता : mpsugandhi@nic.in)  
: आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता / परीक्षण निर्देशों जोकि गृह मंत्रालय की वेबसाईट (पुलिस आधुनिकीकरण संभाग ) के गुणात्मक आवश्यकता पोर्टल में मशीनरी एवं उपकरण के साथ निगरानी उपकरण वर्ग के अन्तर्गत क्रमांक संख्या-83 पर पहले से अपलोड है के स्थान इस पत्र के साथ संलग्न संशोधित गुणात्मक आवश्यकता/ परीक्षण निर्देशों को अपलोड करने का श्रम करें।
- SO (IT), North Block, MHA  
(Through E-mail)  
(E-mail address: [soit@nic.in](mailto:soit@nic.in))  
: कृपया उपरोक्तानुसार कार्यवाही करने का श्रम करें।
- Sh. Samarth Sharma,  
Director Nodal Officer for MHA GeM,  
3<sup>rd</sup> Floor, Jeevan Bharti Building Conaught Lane,  
Janpath Cannaught Place, N/ Delhi-110001  
E-mail:[directorcategory13@gem.gov.in](mailto:directorcategory13@gem.gov.in)  
For info with request to upload the approved QRs & TDs of "Laser & IR Illuminator"-Revision on GeM Portal. Copy of QRs & TDs is attached with this letter.
- तकनीकी विंग, सीमा सुरक्षा बल  
: कृपया उक्त उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों को सीमा सुरक्षा बल की वेबसाईट पर अपलोड करने का श्रम करें।
- गुप कमाण्डर, 51 एस0ए0जी0, एन0एस0जी0  
मानेसर, गुरुग्राम (हरियाणा)-122051  
E-mail:[scord@nsg.gov.in](mailto:scord@nsg.gov.in)  
: आपके यूओ संख्या-114 दिनांक 17 मार्च 2025 के सन्दर्भ में अनुमोदित "Laser & IR Illuminator" उपकरण के संसोधित गुणात्मक आवश्यकता/ परीक्षण निर्देशों को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित जाता है।
- फाईल।


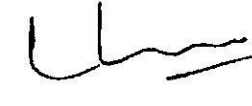
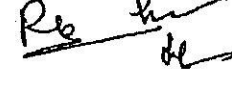




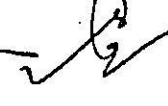

REVISED QRs & TDs OF LASER & IR ILLUMINATOR

S. No	Parameter	Specification/QRs		Trial Directives	Result Expected/ Desired
1.	Laser and IR Illuminator	The device should be a multi aiming device consisting of a Laser and IR Illuminator. The device should be easily mountable on a picatinny rail and be compatible with, MP-5, AK-47 & SIG Rif.		To be Physically checked by BOO	As per the specifications
2.	Size	Should not exceed :- L-155 mm, H-80 mm (including fitment) W- 50 mm		To be Physically checked by BOO	As per the specifications
3	Weight	Should not exceed 350 gms inclusive of battery.		To be Physically checked by BOO	As per the specifications
4.	Range	Minimum range in IR illuminator mode should 175 metre or more.		To be Physically checked by BOO -Switch 'ON' the Laser Illuminator in illuminator mode and observe the area with the help of a night vision device along the direction of illumination up to a distance of 175 mtr.	As per the specifications
5.	Power source	Rechargeable cells as well as Dry Cell.		The system must function on rechargeable cells as well as Dry Cell. To be Physically checked by BOO.	As per the specifications
6.	Life of battery	Minimum 3 hours continuous operation of IR Laser and IR Illuminator.		To be Physically checked by BOO.	As per the specifications
7.	Battery	Battery should be commercially available.		OEM to produce its certificate in this regard.	As per the specifications
8.	Beam wavelength, Bore sighting, Visibility and Eye safe classification	(a)	Visible Laser		
			(i) Eye safe classification	It should be class I eye safe	As per the specifications
			(ii) Wavelength should be	635 (+15) nm	As per the specifications
			(iii) Bore sighting	Should be capable of being boresighted	As per the specifications
		(b)	IR Laser		

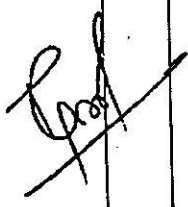






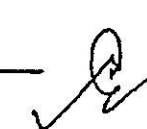





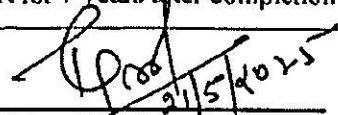
S. No	Parameter	Specification/QRs		Trial Directives	Result Expected/ Desired
		(i) Eye safe classification	It should be class 1 eye safe	An OEM certificate/report confirming the same to be produced by the firms.	As per the specifications
		(ii) Invisibility	It should have invisible IR	To be Physically checked by BOO	As per the specifications
		(iii) Bore sighting	Should be capable of being boresighted		As per the specifications
		(c) <u>IR Illuminator</u>			
		(i) Eye safe classification	It should be class 1 eye safe	An OEM certificate/report confirming the same to be produced by the firms.	As per the specifications
		(ii) Invisibility	It should be invisible	To be Physically checked by BOO	As per the specifications
9.	Nominal ocular hazard distance :	At minimum and maximum divergence should be 0.00.		An OEM certificate/report confirming the same to be produced by the firms.	As per the specifications
10.	Mode of operation	(a) <u>Visible Laser</u>	Should have the facility of changing the brightness of visible laser	To be Physically checked by BOO	As per the specifications
		b) <u>IR Laser</u>	Should have the facility of changing the brightness of IR laser		
		c) <u>IR Illuminator</u>	Should have the facility of IR illumination mode with adjustable zoom and focus lens enabling illuminator operation mode. The illuminator should also have the option of controlling luminosity of the device, with a widely variable beam divergence of minimum 6 to 10 degree or better.		
11.	Mounting	Should be compatible with weapons held with CAPF such as 5.56 INSAS, 7.62 mm AK Series, 9 mm MP5 etc through picatinny rail. Optional:- in case of weapons with out picatinny rail the user may ask for adopter for mounting the equipment		To be Physically checked by BOO	As per the specifications

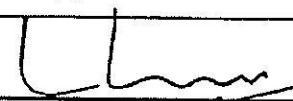










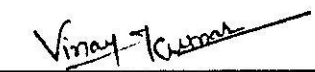
S. No	Parameter	Specification/QRs	Trial Directives	Result Expected/ Desired
12	Features :	Must have the following :-		
	(i)	Convenient switch for operation.	BOO to physically check, convenient switch for operation.	As per the specifications
	(ii)	Power -on indicator LED.	BOO to physically check, convenient switch for operation.	As per the specifications
	(iii)	Should comply with MIL STD 810-G / JSS55555 and IP-67	The firm should submit National / International accredited lab cert / report in r/o MIL STD 810-G / JSS55555 and IP-67	As per the specifications
	(iv)	Beam flashing configuration (Optional) user to specify	BOO to physically check, Operational beam flashing configuration	As per the specifications
	(v)	IR illuminator must be compatible with night vision devices which are in use with security forces and enhance the viewing distance when used in combination.	The compatibility of IR illuminator shall be physically checked with the NVDs, in service with the user organization	As per the specifications
	(vi)	There must be a heat sink for dissipation of heat when the IR illuminator is used for longer time in operations.	A system for dissipation of heat, arising out of prolonged used of device, should be there so that the device does not get heated up and this should be physically checked by the BOO.	As per the specifications
13.	Engineering Support Package	The manufacturer of the device should provide Engineering Support Package including:		As per the specifications
	(a)	Technical Literature in English.	User to specify requirement in number	
	(b)	Training Manual and User Hand Book.		
	(c)	Cleaning Kit.		
	(d)	(a) List of Special Tool Equipment/Special Maintenance Instruments/Test Jigs & fixtures for : -	The firm should submit assurance certificate for the Engineering Support Package contents which details of the concerned part/ lists.	As per the specifications
	(i)	Repair and testing of main equipment at field level.		
	(ii)	List of spares for four yrs for field level base level repairs and spares backup must be assured for at least 10 yrs.		












S. No	Parameter	Specification/QRs		Trial Directives	Result Expected/ Desired
		iii)	Training aids- charts, slides, training brochure blow diagram, video film and CDs.		As per the specifications
14.	Warranty: The warranty period should be 2 years and repair and maintenance support for 7 years after completion of warranty period.			Undertaking in this regard must be obtained from firm.	As per the specifications

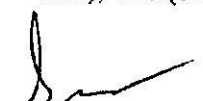
  
(Ravi Gandhi), ADG (Log), BSF


  
(Ashok Kumar), DIO (SIW), BSF

  
(Dr. Vinay Kumar), IRDE, Dehradun  
(through VC)

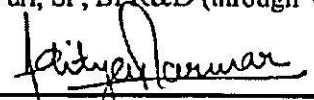
  
(Mukesh Kumar), 2IC (SIW),  
BSF


  
(K L Puri, SP, BPR&D (through VC)

  
(Bhola Nath Sonawan), 2IC, ITBP

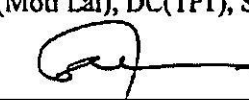
  
(Rishi Kaushik), DC, CISF

  
(Moti Lal), DC(TPT), SSB

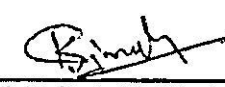
  
(APS Parmar), PC (51 SAG) NSG

  
(Sunil Kumar), Asstt. Director, DCPW

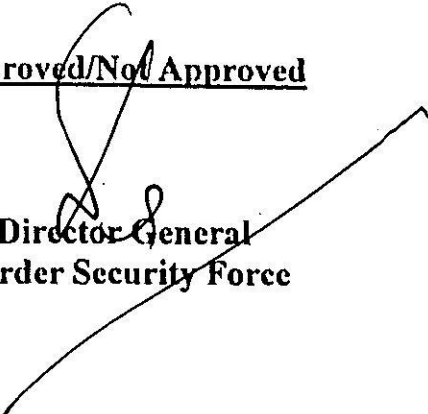
  
(Gaurav Kumar Sharma), AC(Tech)  
Opt Dte, BSF

  
(Shyoram Singh Gurjar), AC,  
CRPF

  
(Inspr/RM S. Chakraborty), SIW, BSF

  
(Nb/Sub Kailash Singh), Assam Rifles

Approved/Not Approved

  
Director General  
Border Security Force