संख्या. पी-63013/69/03/2024/मोड–।/सी0सु0बल/ 3978-81

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 16 अक्टुबर 2025

वरिष्ठ तकनीकी निदेशक
The Senior Technical Director
राष्ट्रीय सूचना–विज्ञान केन्द्र, नोर्थ ब्लाक,
गृह मंत्रालय, नई दिल्ली
NIC, North Block, MHA
New Delhi
(द्वारा ई–मेल)
(ई–मेल पता : mpsugandhi@nic.in)

Sub: **Request for comments of stakeholders/OEM on draft QRs & TDs**

कृपया गृह मंत्रालय के पत्र संख्या IV-24011/12/2011-Prov-I(part)(CFN 3300890)-1710 दिनांक 31st Aug 2015 के सन्दर्भ में।

2. उपरोक्त विष्यान्तर्गत सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा **"Hand Held Search Light (HHSL) without remote"- Revision** के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदें का प्रारुप दिनांक 14 अक्टुबर 2025 को आयोजित सभा के दौरान तैयार किया गया, जिसको इस आशय से प्रेषित किया जा रहा है कि उक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वैबसाईट पर 15 दिन के लिए पुनः अपलोड करने का श्रम करें।

संलग्नः उपरोक्तनुसार

16/10/25
(कपिल चाहर)
उप कमाण्डेंट (मोड)

16/10/25

प्रतिलिपि :-

1.	SO (IT), North Block, MHA **(Through E-mail)** **(E-mail address:** soit@nic.in)	:	उपरोक्त उपकरण के गुणातमक आवश्यकता /परीक्षण निर्देशों के मसौदा को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।
2.	IT Wing, FHQ BSF	:	उपरोक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदे को सीमा सुरक्षा बल की वैबसाईट पर 15 दिन के लिए पुनः अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वैबसाईट पर भी अपलोड करने हेतु निम्नलिखित पतों पर ई–मेल करने का श्रम करें:- (a) Technical Director, NIC, North Block, MHA **(E-mail : mpsugandhi@nic.in)** (b) SO (IT), North Block, MHA **(E-mail :** soit@nic.in)
3.	Prov Dte (Ord Sec), BSF	:	For information w.r.t your UO No.3749 dated 16.09.2025.
4.	File.		

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
ब्लाक संख्या . 10,सीजीओ काम्पलैक्स,लोधी रोड, नई दिल्ली–03
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

संख्या. पी-63013/69/03/2024/मोड–।/सीसुबल/ दिनांक ____अक्टुबर 2025

विषय : **"Hand Held Search Light without remote"- Revision के गुणातमक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/ निर्माताओं/ विक्रेताओं की टिप्पणी के लिए अनुरोध।**

"Hand Held Search Light without remote"- Revision के गुणातमक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रुप में संलग्न किया गया है। हितधारकों/निर्माताओं/विक्रेताओं से अनुरोध किया जाता है कि वे उस उत्पाद की विस्तृत एवं स्टीक जानकारी दें। साथ ही प्रत्येक पैरामीटर के अनुरुप अपने उत्पाद के सही विवरणों को प्रस्तुत करें । सिर्फ 'अनुपालना' या ' अनुपालना नहीं' वाली टिप्पणी स्वीकार नहीं की जाएगी।

- क्या आप मूल उपकरण निर्माता/विक्रेता हैं?
- यदि विक्रेता मूल उपकरण निर्माता का विवरण देता है।
- मूल उपकरण निर्माता से प्राधिकरण प्रमाण पत्र।
- उत्पाद की मूल सूची।
- उत्पाद ब्रोशर एवं साहित्य रचना का ब्यौरा

1. आवश्यक जानकारी/विवरण 30 अक्टुबर 2025 तक निम्नलिखित पते पर भेजे जा सकते हैं।

रसद निदेशालय, सीमा सुरक्षा बल
लेवल–8, ब्लाक–10,
केन्द्रीय कार्यालय परिसर, लोधी रोड,
नई दिल्ली–110003
ईमेलः– comdtord@bsf.nic.in

2. शीघ्र प्रतिक्रिया का अनुरोध किया जाता है।

कपिल चाहर 15/10/25

(कपिल चाहर)
उप कमाण्डेंट (आधुनिकीकरण)

Government of India
Ministry of Home Affairs
Directorate General Border Security Force
(Prov Dte: Mod Cell)
Block No.10, CGO Complex, Lodhi Road, New Delhi-03
(Fax: 011-24367683, Email-comdtord@bsf.nic.in)

No. P-63013/69/03/2024/Mod-I/BSF/ Dated, the __ Oct 2025

Subject : Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "Hand Held Search Light without remote"- Revision

The draft QRs/TDs **"Hand Held Search Light without remote"- Revision** is attached as **Appendix 'A'.** The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details:-

- Whether you are OEM/Vendor?
- If vendor details of OEM.
- Authorization certificate from OEM.
- Original catalogue of the product
- Brochure/Literature of the product

2. The required information/details may please be forwarded at the following addresses by 30 Oct 2025.

Directorate General BSF,
Level-8, Block No. 10,
CGO Complex, Lodhi Road,
New Delhi-110003
Email: comdtord@bsf.nic.in

3. An early response is requested.

16/10/25

(Kapil Chahar)
Dy. Commandant (Mod)

Appendix –'A'

DRAFT QUALITATIVE REQUIREMENTS AND TRIAL OF HAND HELD SEARCH LIGHT (HHSL) – REVISION

S. No.	QRs Parameter/ Specification	Trial Directives	Result expected/ Desired	Remarks
1.	**Casing/Body with carrying Handle: -** Casing/body of HHSL should be heavy duty, water resistant (IP 65 or better). It should be impact proof to withstand impact from one meter on hard surface. Carrying handle should be integral part of the casing/ body to lift/ hold the HHSL.	Should be checked physically by BOO. Drop the search light from the height of 1 meter on hard surface to check its sturdiness. Firm has to submit Government, National/ International accredited lab certificate in respect of IP 65 compliance.	It must be impact proof to withstand impact from one meter on hard surface. Carrying handle should be integral part of the casing/ body to lift/ hold the HHSL. A certificate of IP 65 must be obtained from firm.	
	a **Maximum weight including the battery:** 1.5 Kgs maximum including Battery and shoulder strap (adjustable).	Measure the weight including the battery and shoulder strap with the help of weighing machine.	Weight of the Search Light must be 1.5 Kgs maximum including Battery and shoulder strap (adjustable).	
	b **Dimensions of body:** **i)** Diameter (head) –130 MM (Maximum ii) Length – 250 MM (Maximum)	To be physically checked by the BOO.		
2.	**Construction:**			
	a Modular construction consisting of replaceable modules for ease of servicing/repairs.	BOO to check the equipment physically to ascertain the replaceable modules for ease of servicing/repairs.	Should be a modular construction consisting of replaceable modules for ease of servicing/repairs.	
	b The Lamp/LED module shall be replaceable at the user facility. (Lamp/ LED module should be single)	Should be checked physically by BOO whether the Lamp/LED module is replaceable by unscrewing at the user facility.	The Lamp/LED module must be single and replaceable by unscrewing at the user facility.	
	c The battery shall be replaceable at the user facility.	Should be checked physically by BOO whether the battery can be replaced without disturbing electronic circuit.	The battery must be replaceable at the user facility	
	d Colour of the casing should be preferably black or olive green or as per the user requirement.	Should be checked physically by the BOO.	Colour of the casing must be as per the user requirement.	

	e	Makers name, serial number and operational instructions shall be clearly printed on the body of the cabinet.	Should be checked physically by the BOO.	Makers name, serial number and operational instructions must be clearly printed on the body of the cabinet.	
3.	**Operating Temperature :** Equipment shall be able to operate satisfactorily in the following temperature range with 95% RH at 40° C :- a) -20° C to 55° C b) -40° C to 55° C **(To be decided by the user department at the time of indent)**		Firm has to submit Government, National/ International accredited lab certificate in respect of the same.	A certificate in this regard must be obtained from firm.	
4.	**Battery Endurance:** Rechargeable battery to give minimum continuous operation of 3 hours or better in Maximum/full illumination mode and must be easily available in the market.		Should be checked physically by the BOO.	The battery must give minimum continuous operation of 3 hours or better in Maximum/full illumination mode and must be easily available in the market.	
5.	**Housing of Battery**				
	a	Housing of the battery should be provided in the cabinet/casing of equipment and the battery should be replaceable.	Should be checked physically by BOO.	Housing of the battery must be provided in the cabinet/casing of equipment and the battery should be replaceable.	
	b	Electronics should not be in direct contact with body of the battery.	Should be checked physically by the BOO.	Electronics must not be in direct contact with body of the battery.	
6.	**Circuit**				
	a	Glass epoxy PCB.	Should be checked physically by the BOO.	PCB must be glass epoxy.	
	b	Electronic component nomenclature should not erase with the use.	Firm has to submit OEM/ Government, National/ International accredited lab certificate in respect of the same and BOO to check the certificate/ Lab Test report.	Firm must provide Lab Test report/ Certificate.	
	c	Wires should be of heavy duty.	Should be checked physically by the BOO. Firm has to submit OEM/ Government, National/ International accredited lab certificate in respect of the same and BOO to check the certificate/ Lab Test report.	Firm must provide Lab Test report/ Certificate.	

	d	PCB should be easily removable for repairs/ replaceable.	Should be checked physically by the BOO.	PCB must be removable for repairs /replaceable.	
	e	Moulded modules / Electronic circuits should not be sealed at any stage.	Should be checked physically by the BOO.	Moulded modules must not be sealed at any stage.	
	f	All circuit in a single PCB.	Should be checked physically by the BOO.	PCB must be glass epoxy.	
7.	**Switches/Selector** : Suitable control for ON/OFF and function like High, Low , flasher and timer		Should be checked physically by BOO.	Suitable control for ON/OFF and function like flasher, dimmer and timer must be complied.	
	Single selection switch for all the following modes :-				
	a	Maximum/full illumination mode	Should be checked physically by BOO with the help of selection switch.	Single selection switch must have a position for Maximum/full illumination mode.	
	b	Low beam illumination mode to extend battery life 5 hours.	Should be checked physically by BOO to select 'Low Beam' illumination mode. Switch 'ON' the search light with fully charged battery in Low Beam positions & observe the operating time with the help of stop watch.	Single selection switch must have position for 'Low beam' function. The search light must be operate for minimum 5 hours continuously in low beam.	
	c	Flasher to give min 45 flashes (±5 flashes) per minute.	Should be checked physically by the BOO. Select 'Flasher' mode and count the flasher per minute with the help of stop watch.	Single selection switch must have position for 'Flasher' function, Flasher must give min 45 flashes (±5 flashes) per minute	
	d	Timer 1 minute (The light will automatically cut off after 01 minute)	Should be checked physically by BOO. Select 'Timer' mode and observe the timer for 1 minute with the help of stop watch.	Single selection switch must have position for 'Timer' function and search light turned off after 1 minute.	
	e	Remote control (As an option to be specified by the user).	Remote function should be checked physically by BOO.	HHSL must be function with the remote.	
8.	**Battery status**:- There must be indication for- i) Full battery charge. ii) Low battery charge. iii) Battery charging.		Should be checked physically by BOO.	There must be indicator provided in the search light for full battery, low battery and battery charging.	
9	**Beam Distance/Range:** (In clear weather on levelled ground and in starlit		This test will be conducted during night time where 400 & 200 meters	Search Light must be able to offer detection of movement of persons	

		condition): - i) High beam- 400 Mtrs ii) Low beam- 200 Mtrs (**To be decided by the user department as per their requirement at the time of indent**)	line of sight is available. Move a group of men (3-4) and check the movement from 400 meters by switching 'ON' the search light in High beam mode (full illumination). Repeat the process at 200 Mtrs for Low beam mode.	at a distance of 400 meters and 200 meters respectively.	
10.		**Reflector:** Single Parabolic reflector mounted in shock resistance cap.	Should be checked physically by opening the front cover of the search light and check the parabolic reflector mounted with shock resistance cap.	Single parabolic reflector must be mounted in shock resistance cap.	
11		**Front Glass:** The glass should be of a good quality and should be heat and shock resistant. It should not crack when used continuously and fall of water droplets on it.	Should be checked physically by switching 'ON' the search light continuously for 1 hours. During continuous operation of the search light check the glass for damage due to heat produced. Again, during continuous operation, check the glass for crack or damage when water droplets sprinkled on it. Drop the search light from the height of 1 meter on hard surface to check sturdiness of the front glass.	The front glass must not get damaged or cracked when used continuously and water droplets sprinkled on it. It should not crack/ damage after drop test.	
12		**Shoulder Strap :** Adjustable shoulder strap	Should be checked physically by BOO.	Shoulder strap must be adjustable.	
13		**Battery Charger**			
	a	02 meter long power cord fitted with suitable battery charging adaptor which can easily fit with charging socket of the search light.	To be checked physically by BOO.	Power cord must be compatible to connect AC point and HHSL for charging.	
	b	Operating voltages 90 to 270 volts, 50 HZ single phase AC.	Should be checked physically by BOO by connecting search light with AC mains supply and vary the input voltage from 90 to 270 volt AC mains and check the charging voltage output.	The output i.e charging voltage must not be changed with the change in input voltage i.e 90 volt to 270 volt AC mains.	
	c	Charging time maximum 04 hrs.	Should be checked physically by BOO by connecting the search light having fully discharged battery with the	Charging time must not be more than 04 hrs.	

			mains supply for charging and observe the charging time of battery when full charge indication appears.		
	d	Adequate protection shall be provided against short circuit, battery over charge, battery deep discharge and reverse polarity.	Check the following protection provided in the inbuilt battery charger by connecting the battery on charge. i) Short circuit protection: Short the output terminals of the battery charger output. ii) Battery overcharge protection: There must be auto cut feature to prevent the battery from overcharging. Measure the charging current after the full charge indication appears. iii) Battery deep discharge protection: Switch "ON" the search light when the battery is fully exhausted/ discharged. iv) Reverse polarity protection: Connect the output of the charger in reverse polarity with the battery and observe the result.	i) On shorting the output terminals of the battery charger, circuit must not be getting defective. ii) The charging current must be very less or ignorable which will not over charge the battery. (less than 100 mA) iii) The search light must not switched 'ON' when battery fully exhausted/ discharged to a specified level. iv) On connecting the opposite terminals of the battery and output of the battery charger, the circuit must not be getting defective.	
	e	HHSL must operate in full illumination mode up to 10 minutes after low battery indication.	To be physically checked by BOO.	HHSL must operate as per QR 13(e).	
14	**Resting support:** Should have provision to facilitate stability on a flat surface		Should be checked physically by checking resting support providing on the body of the search light.	Resting supports must be provide on the body of the HHSL to prevent rolling.	
15.	**OPTIONAL - ACCESSORY (To be decided by the user department at the time of indent)**				
a)	**Remote control**				
	i) The Transmitter should work on 9V/12V battery.		Should be checked physically by BOO.	The dimensions of the TX unit must be as per the dimensions mentioned at para 15 (a) (ii). The unit must work on 9V or 12V	
	ii) Dimension of TX unit:- 80 mm x 50 mm x 20 mm (±10 mm).		Should be checked physically by BOO.		

			batteries.	
	iii) Range minimum 100 Mtrs.	Should be checked physically by operating the search light with Remote from a distance of 100 Mtrs.	The search light must be operated/ controlled from a distance of 100 Mtrs.	
b)	**IR Filter**			
	Should have detachable or inbuilt IR filter operable with a switch. IR filter range 125 meter (Minimum).	Fit an IR filter on to the search light front head and check for the method & ease to attach or detach it from search light or inbuilt. This test will be conducted during night time move a group of men (3-4) and check the detection from 125 meters (minimum) by switching 'ON' IR filter with help of NVD (Night Vision Device).	Must have inbuilt IR filter or IR filter which can be attached or detached with ease. IR collar must be able to jack on the Hand Held Search Light. IR filter must be able to offer detection of movement of persons at a distance of 125 meters (minimum) by switching 'ON' IR filter with help of NVD (Night Vision Device).	
c)	**Specification of Wired Control:-**			
	i) Length of the cord 100 meters minimum.	Should be checked physically by BOO.	The Length of the cord must be equal or more than 100 meters.	
	ii) Cord shall be spooled on a plastic or metallic reel having knob for spooling and mounted in a powder coated metal frame.	Should be checked physically by checking the cord spooled on plastic or metallic reel and mounted on a power coated metal frame.	It must be spooled on a plastic or metallic reel having knob for spooling and mounted in a powder coated metal frame.	
d)	One spare battery	To be checked physically by the BOO.		
e)	PCB	To be checked physically by the BOO.		
16	**a) Misc:** User manual with operational instructions etc. should be provided with each equipment.	Firm to provide undertaking in this regard. BOO to check the undertaking.	A undertaking in this regard must be obtained from firm.	
	b) Technical manual including schematic diagram and spare parts list should be provided at the time of supply. **(Qty as specified by the user).**	Firm to provide undertaking in this regard. BOO to check the undertaking.	A undertaking in this regard must be obtained from firm.	
	c) Battery life should be 18 months (Minimum)	Firm to provide undertaking in this regard. BOO to check the undertaking.	A undertaking in this regard must be obtained from firm.	
	d) Training on repair and maintenance of the equipment to be given by the firm. **(Duration and number of trainees to be**	Firm to provide undertaking in this regard. BOO to check the undertaking.	A undertaking in this regard must be obtained from firm.	

	decided by the user department as per their requirement at the time of indent).			
	e) <u>Spare Parts</u> - Backup of all spare parts of the equipment including battery should be provided by the firm for a period of minimum 7 years.	Firm to provide undertaking in this regard. BOO to check the undertaking.	A undertaking in this regard must be obtained from firm.	
17	**<u>Safety and Standard:</u>** Shall confirm to BIS standard IS 2083:2024. BIS Standard mark shall be clearly printed on the body of the cabinet.	BOO should be physically check BIS Standard mark printed on the body of the cabinet. Firm to provide BIS certificate of IS 2083:2024 standard. BOO to check the certificate.		

तकनीकी विशेषज्ञों के उप समूह द्वारा यह निश्चित किया गया है कि उक्त गुणातमक आवश्यकता को अधिक बेहतर बनाने के लिए गृह मंत्रालय एवं सीमा सुरक्षा बल की वैबसाईट पर विक्रेताओं/फर्मों के सुझाव प्राप्त करने हेतु 15 दिन के लिए अपलोड किया जाए।

नोट – सभी विकताओं/फर्मों से निवेदन है कि अपने सुझावों के साथ निम्नलिखित कागजात संल्गन कर ई–मेल पता comdtord@bsf.nic.in पर भेजने का श्रम करें:–

1. उत्पाद की वास्तविक विवरण पुस्तिका।
2. उत्पाद की साहित्यिक रचना का ब्यौरा।
3. गुणातमक आवश्यकताओं के उपर व्यापक टिप्पणीयॉ।

16/10/24

(कपिल चाहर)
उप कमांडेण्ट (आधुनिकीकरण)