

Directorate General Border Security Force
(Prov Dte: Mod Cell)

Expression of Interest

Commandant (Ord)
HQ DG BSF, Prov Dte (Ord Sec)
Block No. 10, CGO Complex
Lodhi Road, New Delhi
(Tele/Fax No. 011-24367683)
Mail id: comdtord@bsf.nic.in

The Sub-group of technical experts on surveillance equipment constituted by MHA vide their letter No. IV-17017/18/2001-Prov-I dated 05 Jul 2002 held its meeting at BSF HQ 17th June 2016 and 21st July 2017 to formulate the QRs of **Field Search Light (FSL)** are as under:-

QUALITATIVE REQUIREMENT OF FIELD SEARCH LIGHT

S/No.	PARAMETER
1.	Design: Field search light should be ergonomically designed, portable, and compact and hand held. Must have a carrying Strap with good quality padding to prevent any entanglement.
2.	Body: It should be high impact resistant, waterproof and shock-resistant; either made of Aerospace-Aluminium with a Mil-spec hard-anodized coating or ruggedized Military Grade ABS Plastic. The system electronics and Lithium-Ion rechargeable batteries should be easy in carrying and handling in field conditions.
3.	Colour : Preferably OG or Black
4.	Light Emitting Source: Suitable High Intensity Discharge (HID) Arc Lamp or LED, which can generate white light. The light source used must be extremely reliable and must not easily subject to breakage/failure as a result of mechanical shock or vibration.
5.	HID Lamp / LED Service Life : 2500 hours (Minimum).
6.	Light Beam : Beam should be fixed focus.
7.	Battery: Lithium-Ion rechargeable batteries of shape and size suiting the design of Field Search Light. The batteries must be available in Indian Market and should have operational life of two years (minimum) with minimum 500 charging cycles.
8.	Ingress Protection : IP 65 or better
9.	Range: Out of two ranges defined as below, User should have choice to select one type or both as per operational requirement.
	Long Range :-
a	Weight : 2.5 Kgs (max) with battery.
b	Effective Range : 400 meters (min).
c	Continuous run time on each charge must be 120 minutes minimum.
d	Detection Range : 400 meters (min) for a group of 3 persons.
e	Integrated handle and of a shape supporting easy carrying and handling

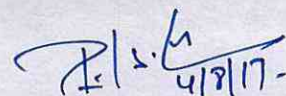
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	in field conditions.
	Short Range
a	Weight : 1 Kgs (max) with battery.
b	Effective Range : 250 meters (min).
c	Continuous run time on each charge must be 120 minutes minimum.
d	Detection Range : 250 meters (min) for a group of 3 persons.
10.	Battery Status Indicator : There must be a provision for battery status indicator.
11.	Battery Charger : A suitable Intelligent, AC and DC Charger (AC 90-270V and DC 12 to 24 VDC) to be provided. The charger should have over charge protection facility. Suitable connectors be provided to charge the battery by using 12-24 volt DC. The power cable for the charger should be 3-meter minimum in length with standard plug.
12.	Charging Time : 5 hours (Maximum) to fully charge one battery.
13.	ON-OFF Mechanism : Noiseless smooth push button or noiseless smooth rotary dial.
14.	Mode of Operation : The search light should have two modes i.e. full light mode and half-light mode.
15.	Operating temperature :-10 degree to + 55 degree
16.	Manuals :-
a	User manuals be provide with each equipment.
b	Technical manual be provided giving illustrations on repair and maintenance alongwith the Schematic diagram.
c	Maintenance and Repair List of Spares (MRLS) be provided.
d	Special Tools/Kit be provided (Scale be specified by the user).
17.	A single system unit must consist of :-
a	Search light -01 No.
b	Lithium-Ion Rechargeable battery – 01 fitted and 01 spare battery.
c	AC and DC Charger -01 No each.
d	Carrying Strap with suitable padding and quick disengaging mechanism -01 No (with medium range FSL only)
e	Water proof soft carrying case -01 No.
f	Ruggedized hard transportation box -01 No.
g	Spare HID lamp/LED-01 No.

The Sub-group has decided to upload the QRs on MHA and BSF website for 15 days to invite the views/ comments/ suggestions of prospective bidders to make the QRs more broad based.

Note- All firms are requested to provide the following.

1. Original Brochure of product by OEM.
2. Detail literature about the product.
3. Comprehensive comments for incorporation in the specifications.



(Rishipal Singh)
Second-In-Command (Mod)