

संख्या. पी-63013/11/2022/मोड-1/सीसुबल/ 2253-

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

4

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली-03
दिनांक 18 जुलाई 2023

सेवा में,

महानिदेशक:- आसाम राईफलस (through LOAR), केन्द्रीय ओद्योगिक 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 निम्नलिखित उपकरणों के गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

- (i) Driver Night Sight ✓
- (ii) Fusion Monocular

संलग्न : उपरोक्तनुसार

इन्द्र देव सिंह

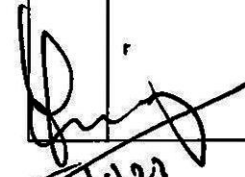
(इन्द्र देव सिंह)
उप महानिरीक्षक (रसद)

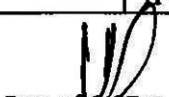
प्रतिलिपि :-

1. तकनीकी निदेशक
The 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) : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (MHA - Division of MHA+ - Police Modernisation Division- Qualitative Requirements- Qualitative Requirements of Machinery & Eqpt items with Surveillance item) पर अपलोड करने का श्रम करें।
2. SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in) : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (MHA - Division of MHA+ - Police Modernisation Division- Qualitative Requirements- Qualitative Requirements of Machinery & Eqpt items with Surveillance item) पर अपलोड करने का श्रम करें।
3. तकनीकी विंग, सीमा सुरक्षा 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।

QRs/TDs OF DRIVER NIGHT SIGHT

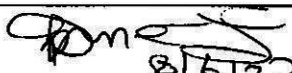
S/N	Parameter	Specification	Trial Directive
1.	General	Driver Night Sight are required for drivers to operate silently in night hours without using head lights in operational areas to maintain surprise.	--
2.	Weight	Weight of the sight should not be more than 1 Kg excluding connecting cable, external display and mount.	To be physically checked by BOOs.
3.	Mount	Mounting of the sight should be fitted either on bonnet or on the roof of the vehicle. Welding and drilling is not allowed for installing of DNS on a vehicle. Firm to provide additional and suitable mounting arrangements for installation. User to specify the model and type of vehicle for which DNS is required at the time of tender.	To be physically checked by BOOs.
4.	Features	i) Real time Thermal Imaging feed for enhancing night driving capability for SUV/ MUV/ armoured carriers should be present to be displayed on external screen for driver. ii) Fixed mechanical mounting arrangement for camera will be provided as per vehicle design.	To be physically checked by BOOs.
5.	Detector	i) Un-cooled Micro bolometer or better ii) Spectral range 8-14 μm or better. iii) Sensor Resolution 640x480 or better iv) Pixel-pitch 17 microns or better.	OEM to provide Detector datasheet and certificate in this regard.
6.	Ruggedization	MIL STD 810G/ JSS-55555/ JSS- 5855 compliant in terms of ruggedization for following parameters:- i) General Vibration ii) Rain test iii) Humidity (90%) iv) Low pressure (Altitude) In addition to the Driver night sight, which will be put outside the vehicle must be IP-67 Compliant.	Firm to submit a lab certificate from a NABL accredited lab for all mentioned parameters.


8/6/23
Rep of CRPF


8/6
Rep of CSE


Rep of BSF


Rep of SSB

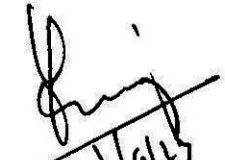

8/6/23
Rep of ITBP


Rep of NSG


Rep of AR


8/6/23
Rep of BPR&D

7.	Field of view	QRs:- 40° H x 30° V or more.	This parameter will be checked at SIW, BSF or IRDE Dehradun. BOOs will approach above agencies for checking of FOV during STEC and JRI/PDI.
8.	Detection	Detection – 100 meter (Moving target) Recognition – 60 mtr (Standing Human being)	To be physically checked by BOOs.
9.	Camera control	i) Connectivity through wired connection from camera to display unit. ii) Mil Std grade wire and connectors to be provided by the firm.	To be physically checked by BOOs. Firm to submit data-sheet/OEM certificate for MIL grade wires and connectors.
10.	Frame rate	Not less than 25 FPS	Firm to provide OEM certificate and BOOs to physically check the same. There should be no frame lag while sudden movement of equipment during driving.
11.	Video Output	i) Output video port should be there, and suitable connectors should be provided for video output on Driver screen. ii) Single output should support TI video output.	To be physically checked by BOOs.
12.	Display Screen	i) Display:- Mil grade ruggedized 7 inch (minimum) LED/OLED size display screen be provided. ii) Flexible mounting arrangements should be provided by the firm for installation of display screen on the dashboard of different type of vehicles. iii) However, user can also ask for the specific design for a specific vehicle at the time of tender. Note :-User may opt for larger display screen and mention its requirement at the time of indent.	To be physically checked by BOOs and firm to submit OEM certificate from the manufacture of display screen for its Military grade status.
13.	Operating temperature	-20°C to + 50°C	Firm to submit a lab certificate from a NABL accredited lab for same.


Rep of CRPF

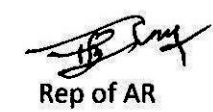

Rep of BSF

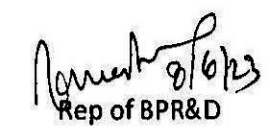

Rep of BSF


Rep of SSB



Rep of ITBP

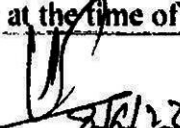

Rep of NSG


Rep of AR

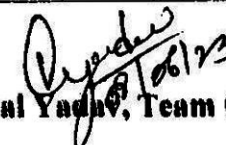

Rep of BPR&D

14.	Vehicle speed	15 - 40 Km/hr	To be physically checked by BOOs.
15	Warranty	Minimum 2 years	Firm to submit an undertaking certificate in this regard.
16	Shelf Life	Minimum 8 years.	Firm to submit an undertaking certificate in this regard.
17	Miscellaneous:-	<ul style="list-style-type: none"> i) Supplier to submit undertaking to provide spare parts for next 8 years minimum from the date of supply. ii) Technical manual/ operational manual including repair manual of Driver Night Sight to be provided by the firm. iii) Operational training should be arranged for about 7 working days to minimum 10 Drivers at any field location. Numbers of trainee and field locations to be specified by the user at the time of tender. 	Firm to submit an undertaking certificate in this regard.


8/6/23
(Shri Vinay Verma, DC (Ord), CRPF)


8/6/23
(Shri Arvind Tomar, DC, CISF)


8/6/23
(Shri Gaurav Dutt, AC, BSF)


8/6/23
(Shri Kaushal Yadav, Team Comdr, NSG)


8/6/23
(Shri H B Thapa, Nb/Sub., AR)


8/6/23
(Shri Ram Gopal Meena, Insp/Tech, ITBP)


(Shri Sandeep Kumar, ASI/Conn, SSB)


8/6/23
(Dr. Raveesh Kumar, PSO (W), BPR&D)


8/6/23
Shri. Des Raj, DIG (Ord) Dte, CRPF


8/6
Smt. V Sonal Misra, IPS
(IG Provisioning Dte)

Approved/Not approved

(Nitin Agarwal) IPS
DG BSF


Shri. Daljit Singh Chawdhary, IPS
SDG HQ CRPF