

**Directorate General, C.R.P.F**

Block No.1, CGO Complex, Lodhi Road, New Delhi  
(Ministry of Home Affairs/ Grih Mantralaya)  
(Tele No.011-24369587/Fax No.011-24360155)

No. M.V-1/2023-24-Prov-Ord-II

Dated, the 23 May,2023.

To

The Technical Director, NIC  
North Block, New Delhi  
Email: [mpsugandhi@nic.in](mailto:mpsugandhi@nic.in)

**Subject: - Regarding publishing the draft QRs/TDs of Driver Night Sight**

CRPF intend to procure some Driver Night Sight for night driving; so the draft of requirement is attached with a request to upload it on MHA's Website for a period of 15 days (From 24/05/2023 to 07/06/2023) for comments of eligible vendors. The interested vendors/OEMs may send their comments in the following channels :-

Through Mail	<a href="mailto:dcordnance@crpf.gov.in">dcordnance@crpf.gov.in</a>
Through Fax	011-24360155
By Hand	Room No. 10, Ground Floor, Block No. 01, Directorate General, CRPF, Lodhi Road, New Delhi-03

Encl:- Draft QRs/TDs of Driver Night Sight (02 Pages).

(Des Raj)  
DIG (Ordinance)

No. M.V-1/2023-24-Prov-Ord-II

Dated, the 23 May,2023.

Copy forwarded to:-

SO (IT), North Block for necessary action please. ([soit@nic.in](mailto:soit@nic.in)).

(Des Raj)  
DIG (Ordinance)

**DRAFT 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 $\mu\text{m}$ 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 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.
7.	Field of view	QRs:- 40deg H x 30 deg V or more.	NABL certificate
8.	Detection	Detection – 100 meter (Moving target) Recognition – 60 mtr (Standing Human being)	To be physically checked by BOOs.

9.	Camera control	<p>i) Connectivity through wired connection from camera to display unit.</p> <p>ii) Mil Std grade wire and connectors to be provided by the firm.</p>	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	<p>i) Output video port should be there, and suitable connectors should be provided for video output on Driver screen.</p> <p>ii) Single output should support TI video output.</p>	To be physically checked by BOOs.
12.	Display Screen	<p>i) Display:- Mil grade ruggedized 7 inch (minimum) LED/OLED size display screen be provided.</p> <p>ii) Flexible mounting arrangements should be provided by the firm for installation of display screen on the dashboard of different type of vehicles.</p> <p>iii) However, user can also ask for the specific design for a specific vehicle at the time of tender.</p>	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.
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:-	i) Supplier to submit undertaking to provide spare parts for next 8 years minimum from the date of supply.	Firm to submit an undertaking certificate in this regard.

		<p>ii) Technical manual/ operational manual including repair manual of Driver Night Sight to be provided by the firm.</p> <p>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.</p>	
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23/9/23  
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