

**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-1/2022-23-Prov-Ord-II

Dated, the 16 December, 2022.

To

The Technical Director, NIC

North Block, New Delhi

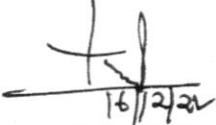
Email: [mpsugandhi@nic.in](mailto:mpsugandhi@nic.in)

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

CRPF intends 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 20/12/2022 to 03/01/2023) 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).


  
16/12/22  
(Des Raj)  
**DIG (Ordinance)**

No. M.V-1/2022-23-Prov-Ord-II

Dated, the 16 December, 2022.

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.	Weight	Weight of the sight not more than 3000 g excluding connecting cable, external display and mount.	To be physically checked by BOOs.
2.	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. Vehicle access to be provided by the user for arrangements and measurements beforehand.	To be physically checked by BOOs.
3.	Detector	(i) Un-cooled Micro bolometer or better (ii) Spectral range 8-14 um 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.
4.	Ruggedization	MIL STD 810H/ JSS-55555 compliant in terms of ruggedization for following parameters:- (i) Shock (ii) Vibration (iii) Bump (iv) Rain test (v) Humidity (vi) Low pressure (altitude) In addition to that equipment must be IP 67 Compliant.	NABL certificate
5.	Field of View	52 deg H x 45 deg V or better	
6.	Detection	Detection – 100 meter (Moving target) Identification – 50 mtr (Standing Human being)	To be physically checked by BOOs.
7.	Camera control	Remotely through RS232 link Ethernet/ Buttons on display (In case user opts for rugged Display unit)	To be physically checked by BOOs.
8.	Frame rate	Not less 50 FPS	NABL certificate
9.	Video Output	(i) Output video port should be there, and suitable connectors should be provided for video output on Driver screen/ext TV. (ii) Single output should support Day /TI video; user should be able to select the output type using. (iii) CCIR (iv) Ethernet Video output:- H.264	To be physically checked by BOOs.
11.	Display	(i) Display:- 7inch (min) LED/OLED (ii) Placement of display on windscreen/dashboard to be decided by user	To be physically checked by BOOs.

		as per the vehicle design. (iii) Display mounting arrangement accordingly to be provided by the firm.	
13.	Operating Voltage	12 Volt DC	To be physically checked by BOOs.
14.	Dimensions of sight	Dimension of camera system should not exceed 170mm x 110 mm x 250mm.	To be physically checked by BOOs.
15.	Additional features	i) Advanced Driver Assistance: It should auto recognise and detect targets like vehicles and human displayed on screen. ii) On screen graphics like timestamp, date, lane marker should be provided on display. (Optional)	To be physically checked by BOOs.
17.		Single LRU based system should be easy to integrate with direct Ethernet connectivity to the display for video and camera control.	To be physically checked by BOOs.
18.	Operating temperature	-10 c to + 50 c	NABL certificate
19.	Vehicle speed	15 – 20 Km/hr	To be physically checked by BOOs.