

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 25 जुलाई 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 31 अगस्त 2015 के सन्दर्भ में।

2. उपरोक्त विषयान्तर्गत यह सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा **Passive Night Vision Goggle-Revision** गुणात्मक आवश्यकता/परीक्षण निर्देशों का प्रारूप दिनांक 22 जुलाई 2025 को आयोजित सभा के दौरान तैयार किया गया था जिसको इस आशय से प्रेषित किया जा रहा है कि उक्त गुणात्मक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वेबसाइट पर 15 दिन के लिए अपलोड करने का श्रम करें।

संलग्न : उपरोक्तनुसार


(कपिल चाहर)

उप कमाण्डेंट (मोड)

प्रतिलिपि :-

1. SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in)

: उपरोक्त समस्त गुणात्मक आवश्यकता का मसौदा आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु।

2. IT Wing, FHQ BSF

: उपरोक्त उक्त गुणात्मक आवश्यकता का मसौदे को सीमा सुरक्षा बल की वेबसाइट पर 15 दिन के लिए अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वेबसाइट 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), FHQ BSF

: For info w.r.t their letter No.1594 dated 26.05.2025.

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

संख्या. पी-63013/171/02/2025/मोड-1/सीसुबल/

दिनांक ___ जुलाई 2025

विषय : Passive Night Vision Goggle-Revision के सूत्रीकरण गुणात्मक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/निर्माताओं/विक्रेताओं की टिप्पणी के लिए अनुरोध।

1. **Passive Night Vision Goggle-Revision** के गुणात्मक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रूप 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 अनुरूप 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
2. आवश्यक जानकारी/विवरण निम्नलिखित पते पर दिनांक 08 अगस्त 2025 तक भेजने का श्रम करें।
रसद निदेशालय, सीमा सुरक्षा बल
लेवल-8, ब्लाक-10,
केन्द्रीय कार्यालय परिसर, लोधी रोड,
नई दिल्ली-110003
ईमेल:- comdtord@bsf.nic.in
3. शीघ्र प्रतिक्रिया का अनुरोध किया जाता है।

कपिल चाहर
(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-63013/171/02/2025/Mod-I/BSF/

Dated, the ___ July 2025

Subject : Request for comments of stakeholders/ OEM/ Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of Passive Night Vision Goggle-Revision

1. The QRs/TDs of **Passive Night Vision Goggle-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.

- 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 08.08.2025:-

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.


(Kapil Chahar)
Dy. Commandant (Mod)

DRAFT QRS & TDS OF PASSIVE NIGHT VISION GOGGLE (PNVG)- REVISION

S/No	QRs Parameter/ Specification	Trial Directives	Remarks																
1.	Weight: Maximum 550gm including cells/ batteries, OG cover and eye guard.	Measure the weight of the PNV Goggle including cells or batteries with the help of calibrated weighing machine.																	
2.	<u>Image Intensifier Tube (II Tube)</u> All parameters of II Tube mentioned below should be supported by certificate of II tube manufacturer and data sheet of each II Tube must be provided: - a) Resolution: 72 lp/mm or better b) Signal to Noise Ratio (SNR) 26 or better at 108 p lux. c) Mean Time to failure (MTTF): Minimum 10,000 operational hours. d) It should have inbuilt AGC/BSP. e) Permissible black spot level <table border="1"> <thead> <tr> <th>Size of spot (in inches)</th><th>Zone 1 (6mm)</th><th>Zone 2 (6mm-5mm)</th><th>Zone 3 (15mm-18mm)</th></tr> </thead> <tbody> <tr> <td>0.003 to 0.006</td><td>0</td><td>1 (Max)</td><td>2 (Max)</td></tr> <tr> <td>0.006 to 0.009</td><td>0</td><td>1 (Max)</td><td>1 (Max)</td></tr> <tr> <td>>0.009</td><td>0</td><td>0</td><td>0</td></tr> </tbody> </table>	Size of spot (in inches)	Zone 1 (6mm)	Zone 2 (6mm-5mm)	Zone 3 (15mm-18mm)	0.003 to 0.006	0	1 (Max)	2 (Max)	0.006 to 0.009	0	1 (Max)	1 (Max)	>0.009	0	0	0	Send the equipment to verify/check the QRs para 2(a), (b) & (e) to IRDE Dehradun or any other Govt. institution where such testing facilities are available and check the report provided by the IRDE or other institutions. The firm to provide OEM certificate/report in respect of QRs Para 2(c) & (d) from OEM of II tube.	
Size of spot (in inches)	Zone 1 (6mm)	Zone 2 (6mm-5mm)	Zone 3 (15mm-18mm)																
0.003 to 0.006	0	1 (Max)	2 (Max)																
0.006 to 0.009	0	1 (Max)	1 (Max)																
>0.009	0	0	0																
3	<u>Mount:</u> Must be capable of being used as a hand-held viewer, face & helmet mounted. Light weight and rust proof adaptor should be provided with each equipment.	Fix the equipment on face with the help of mask/strap or head mount adaptors provided with the equipment. Again, fix the equipment on helmet with the help of helmet mounts																	
4	<u>Ingress protection:</u> IP 67 or better certificate.	Tighten the battery cover properly. The equipment should be immersed in one meter depth of water excluding the height/width of the equipment, for half an hour. Take out the equipment from the water container and switch 'ON' after drying it. Firm to provide NABL accredited lab certificate.																	
5	<u>Range (in star lit conditions without moon):</u> For Human being Detection- 250 meters or better Recognition-150 meters or better For light commercial vehicle: Detection- 400 meters or better Recognition- 300 meters or better	Place two or three men in camouflage at the range of 250 meters and 150 meters in extended line formation and move them. (Light conditions should be checked by Lux Meter and value of light level is less than or equal to 10^{-3} lux) Again, place a light commercial vehicle at different angles at a distance of 400 meters & 300 meters for detection & recognition																	

S/No	QRs Parameter/ Specification	Trial Directives	Remarks.
		respectively.(Light conditions should be checked by Lux Meter and value of light level is less than or equal to 10^{-3} lux)	
6	<u>Power source:</u> i) Should be operable independently on primary and rechargeable cells and batteries. The equipment is to be supplied with one set of commercially available primary & rechargeable batteries. ii) The batteries should run at least 10 hrs with IR and 20 hours or better on normal mode. iii) One commercially available charger with each PNV goggle required with charging facility both AC volt and DC volt (2-in-one facility).	i) Switch 'ON' the equipment by inserting two primary cells & two rechargeable batteries in it one by one separately. Physically check the supplied/provided set of primary & rechargeable batteries. ii) Switch 'ON' the equipment after inserting new cells or batteries for 20 hours in normal 'ON' mode. After this again switch 'ON' the equipment for at least 10 hours in IR mode with fresh batteries. iii) Charger provided for charging batteries should be easily available in commercial market. Connect the charger on AC mains supply of 220 volt as well as on DC supply.	
7.	Must have Eye safe IR LASER illuminator for use in totally dark environment for recognition at a range of 125 meters or better.	a) Switch 'ON' the PNV Goggle in IR LASER Mode in totally dark environment. b) Firm to provide OEM certificate for Class-I Eye safe. BOO to check the certificate.	
8	<u>Low battery indication:</u> Low battery indication should be provided inside the Field of view (FOV)	Switch 'ON' the equipment on power supply and reduce the supply voltage linearly for low battery indication confirmation	
9.	<u>Magnification</u> 1 x or better	Fix the equipment on instrument testing scale of integrated test equipment and measure the magnification of the PNV Goggle as per the procedure.	
10	<u>Field of View:</u> $45^{\circ} \pm 5$ or better	Fix the equipment on instrument testing scale of integrated test equipment and measure the Field of View as per the procedure.	
11	<u>Dioptr adjustment:</u> -5d to +4d dioptr or better	Measure the Dioptr adjustment with the help of Dioptr kit or apparatus.	
12	Vision Binocular vision with single II tube	To be Physically checked by BOO.	
13	<u>Operating temperature :</u> -30° C to +55° C (should comply with MIL STD 810G)	Firm to provide NABL/ International accredited lab certificate in r/o operating temperature. BOO to check the certificate.	

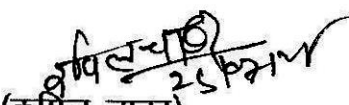
S/No	QRs Parameter/ Specification	Trial Directives	Remarks
14	Storage temperature -30° C to +60° C	Firm to provide NABL/ International accredited lab certificate in r/o storage temperature. BOO to check the certificate	
15	<u>Carrying case:</u> a) Each equipment should be supplied with a suitable hard carrying case.	To be physically checked by BOO. Firm to provide a rugged hard carrying case. The PNV Goggle after keeping in hard carrying case, subject to sustain a drop test from 2meter height on a hard flat surface. No deformations/ cracks on hard carrying case are acceptable. PNV Google to be checked for operational use post drop test.	
	b) Soft carrying case should be light weight water resistant	It should be light weight, water resistant and must compliant to IP-65. Firm to provide NABL/ International accredited lab test report/ certificate. BOO to check the certificate.	
16	<u>Environmental requirement:</u> Goggle should confirm to JSS 55555 or Mil Std 810-G latest for humidity, shock, vibration, rain test etc. to be supported by NABL accredited laboratory certificate.	Firm to provide NABL/ International accredited lab certificate/ report in r/o JSS55555 or MIL STD-810G. BOO to check the certificate.	
17	Interpupillary Distance 55-72 mm	To be checked by BOO.	
18	<u>Bright Source Protection (BSP)-</u> PNV goggle should have inbuilt BSP.	To be checked by BOO.	
19.	<u>Miscellaneous:-</u>		
	i) Purging kit be provided at the time of supply (quantity be specified by the user)	(i) Firm to provide undertaking certificate in this regard. BOO to check the certificate.	
	ii) One additional set of battery be provided.	(ii) To be physically checked by BOO.	
	iii) Cleaning kit be provided with each of the equipment	To be physically checked by BOO.	
	iv) Supplier to submit undertaking to provide spare parts for next 10 yrs. minimum from the date of supply.	Firm to provide undertaking certificate in this regard.	
	v.) Illustrated spare part list along with photograph and cat part number to be provided	BOO to check the certificate.	

S/No	QRs Parameter/ Specification	Trial Directives	Remarks
	vi) Technical manual/operational manual including repair manual of PNV Goggle.	Firm to provide undertaking certificate in this regard. BOO to check the certificate.	
	vii. a) Repair & maintenance training should be arranged for at least 02 persons or 02 persons on 100 equipment for 01 week. b) The Operational training should be conducted at field location for 02 days.	Firm to provide undertaking certificate in this regard. BOO to check the certificate.	
	viii) Warranty: warranty of PNV Google minimum 02 years including the warranty of II Tube and shelf life of 10 years.	Firm to provide undertaking certificate in this regard. BOO to check the certificate.	

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

नोट - सभी विक्रेताओं/फर्मों से निवेदन है कि अपने सुझावों के साथ निम्नलिखित कागजात संलग्न 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. गुणात्मक आवश्यकताओं के उपर व्यापक टिप्पणीयों।


(कपिल चाहर)
उप कमांडेण्ट (आधुनिकीकरण)