

संख्या. पी-63013/62/2022/मोड-1/सीसुबल 4143-45

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

ब्लाक संख्या . 10,
सीजीओ काम्प्लैक्स,
लोधी रोड, नई दिल्ली-03

दिनांक 15 दिसम्बर 2022

वरिष्ठ तकनीकी निदेशक

The Senior Technical Director

राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लॉक,

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.

कृपया गृह मंत्रालय के पत्र संख्या IV-24011/12/2011-Prov-I(part)(CFN 3300890)-1710
दिनांक 31st Aug 2015 के सन्दर्भ में।

2. उपरोक्त विषयान्तर्गत यह सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा
“PNV Goggle” के पुनः सूत्रीकरण गुणात्मक आवश्यकता/परीक्षण निर्देशों का प्रारूप दिनांक 06
दिसम्बर 2022 में आयोजित सभा के दौरान तैयार किया गया था जिसको इस आशय से प्रेषित किया जा
रहा है कि उक्त गुणात्मक आवश्यकता/परीक्षण निर्देशों के मसौदे को गृह मंत्रालय की वेबसाइट पर
15 दिन तक अपलोड करने का श्रम करें।

संलग्न : उपरोक्तनुसार

(दिगेन्द्र सिंह पेंवार)

उप कमाण्डेंट (मोड)

प्रतिलिपि :-

1. SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in)
 2. IT Wing, FHQ BSF
- : उपरोक्त समस्त गुणात्मक आवश्यकता का मसौदा आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु।
- : i) उपरोक्त उक्त गुणात्मक आवश्यकता का मसौदे को सीमा सुरक्षा बल की वेबसाइट पर 15 दिन तक 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 भी 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)

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-63013/62/2022/Mod-1/BSF/

Dated, the 15 Dec 2022

Subject : Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "PNV Goggle-Revision".

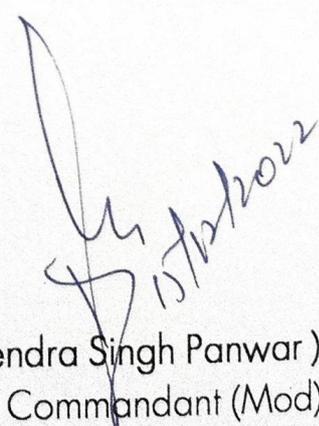
1. The revised QRs/TDs "PNV Goggle" is attached as Appendix 'A'. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details:-

- 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 31.12.2022.

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.


(Digendra Singh Panwar)
Dy. Commandant (Mod)

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

संख्या. पी-63013/62/2022/भोड-1/सीसुबल

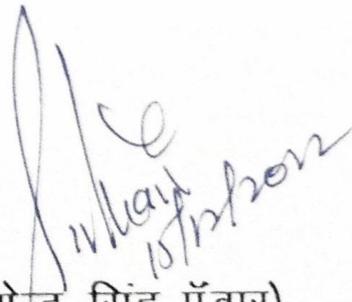
दिनांक 15 दिसम्बर 2022

विषय : PNV Goggle के पुनः सूत्रीकरण के गुणात्मक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/निर्माताओं/विक्रेताओं की टिप्पणी के लिए अनुरोध।

1. PNV Goggle के पुनः सूत्रीकरण 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।
2. आवश्यक जानकारी/विवरण 31 दिसम्बर 2022 तक निम्नलिखित पते पर भेजे जा सकते हैं।

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।


(दिगेन्द्र सिंह पॅवार)
उप कमाण्डेंट (आधुनिकीकरण)

DRAFT QRS/TDS OF PNV GOGGLES- REVISION

SNO	PARAMETER	SPECIFICATION	PROCEDURE SUGGESTED FOR TRIAL BY BOARD OF OFFICER	RESULT EXPECTED / DESIRED	Complied/Not Complied			
1.	Weight	Maximum 600gm including cell/ batteries	Measure the weight of the Goggle including cells or battery with the help of calibrated weighing machine	Should not be more than 600 gm including cells/batteries.				
2.	Image Intensifier Tube (II Tube)	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: 64 Ip/mm or better b) Signal to Noise Ratio (SNR) 25 or better at 108 p lux. c) Mean Time to failure (MTTF): Minimum 10,000 operational hours. d) It should have inbuilt AGC/BSP. f) Permissible black spot level	<ul style="list-style-type: none"> Send the equipment to verify/check the QRs part 2 (a), (b) & (f) to IRDE Dehradun or any other institution where such testing facilities is available and check the report submitted by the IRDE or other institution. The firm should submit OEM certificate/report in respect of QRs Para 2 (c) to (d) from original manufacturer of II tube. 	The certificate/reports from IRDE Dehradun or any other institution and OEM must confirm the QRs Para 2 (c) to (d).				
		Size of spot (in inches)				Zone 1 (6mm)	Zone 2 (6mm-15mm)	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	Mount	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	Equipment should be easily mounted on the face mask or strap or head mount and user friendly for hands free operation. It should also have the facility to be mounted on helmet with supplied/provided adaptor or mount and should be user				

SNO	PARAMETER	SPECIFICATION	PROCEDURE SUGGESTED FOR TRIAL BY BOARD OF OFFICER	RESULT EXPECTED / DESIRED	Complied/Not Complied
4	Ingress protection	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 will also submit NABL accredited lab certificate.	friendly & comfortable Wipe the equipment with a soft cleaning cloth and dry it externally. Check by opening the battery compartment and other external open able parts for ingress of water content inside. If it is found OK then insert the battery and switch ON the equipment. It should run properly and no water contents/wipes should be appearing on the view	
5	Range (in star lit conditions without moon)	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}) Again, place a light commercial vehicle at different angles at a distance of 400 meters & 300 meters for detection & recognition respectively. (Light conditions should be checked by Lux Meter and value of light level is less than or equal to 10^{-3})	Movement of human target should be detected at the range of 250 meters and recognized at 150 meters clearly. Similarly, Movement of vehicle should be detected at the range of 400 meters and recognized at 300 meters clearly. Note: Detection means presence of something is there, whereas recognition means what type of target is there and the type of movement.	
6	Power source	i) Should be operable independently on primary and rechargeable cells and battery. The equipment is to be supplied with one set of commercially available primary & rechargeable battery. ii) The battery should run at least 10 hrs with IR and	i) Switch 'ON' the equipment by inserting two primary cells & two rechargeable cells in it one by one separately. Physically check the supplied/provided set of	i) The equipment should be operated independently on primary & rechargeable cells and battery. ii) Goggle should run at least 10 hours with IR and	

SNO	PARAMETER	SPECIFICATION	PROCEDURE SUGGESTED FOR TRIAL BY BOARD OF OFFICER	RESULT EXPECTED / DESIRED	Complied/No Complied
		<p>20 hours on normal mode.</p> <p>iii) One commercially available charger with each goggle required with charging facility both AC volt and DC volt (2-in-one facility).</p>	<p>primary & rechargeable battery.</p> <p>ii) Switch 'ON' the equipment after inserting new cells or battery 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.</p> <p>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.</p>	<p>20 hours on normal mode.</p> <p>iii) Rechargeable cells or battery should be charged with the charger provided on both AC Mains 220 Volt supply and on 12/24/36 volt DC supply.</p>	
7.	Must have Eye safe IR LASER illuminator for use in totally dark environment for recognition at a range of 125 meters or better.		Switch 'ON' the Goggle in IR LASER Mode in totally dark environment. Firm should submit OEM certificate in this regard.	A human target must be easily recognized in totally dark environment up to the range of 125m in IR mode.	
8	Low battery indication	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.	Low battery indication should be provided inside the FOV.	
9.	Magnification	1 x or better	Fix the equipment on instrument testing scale of integrated test equipment and measure the magnification of the Goggle as per the procedure.	Magnification should be 1x or better.	
10	Field of View.	40° or better	Fix the equipment on instrument testing scale of integrated test equipment and	FOV should be 40 minimum	

SNO	PARAMETER	SPECIFICATION	PROCEDURE SUGGESTED FOR TRIAL BY BOARD OF OFFICER	RESULT EXPECTED / DESIRED	Complied/Not Complied
			measure the Field of View as per the procedure		
11	Diopter adjustment.	-4.5d to +4dioptrre or better	Measure the Diopter adjustment with the help of Diopter kit or apparatus	The Goggle should have Diopter adjustment from -4.5 to +4d or better.	
12	Vision	Binocular vision with single II tube	Check the supporting documents provided by the firm.	An NABL lab certificate/report should be submitted by the firm. NABL certificate should not be more than 02 years old from the date of closing of bid	
13	Operating temperature	-30° C to +55° C (should comply with MIL STD 810G)	Check the supporting documents provided by the firm.	An NABL lab certificate/report should be submitted by the firm. NABL certificate should not be more than 02 old years from the date of closing of bid	
14	Storage temperature	-30° C to +60° C	Check the supporting documents provided by the firm.	An NABL lab certificate/report should be submitted by the firm. NABL certificate should not be more than 02 years old from the date of closing of bid	
15	Carrying case	Each equipment should be supplied with a suitable hard carrying case and soft carrying case. Soft carrying case should be light weight water resistant	Check physically the hard carrying case. Firm to produce accredited lab certificate for IP 65.	It should be contained in a hard carrying case and IP 65 compliant soft carrying case	
16	Environmental requirement.	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	Check the supporting documents provided by the firm.	An NABL accredited lab certificate/report should be submitted by the firm which confirms JSS 55555 or Mil Std 810-G for humidity, shock, vibration, rain test	

SNO	PARAMETER	PROPOSED SPECIFICATION	PROCEDURE SUGGESTED FOR TRIAL BY BOARD OF OFFICER	RESULT EXPECTED DESIRED	Complied/Not Compiled
				etc. NABL certificate should not be old more than 02 years from the date of closing of bid.	
17.	Miscellaneous:				
		i) Purging kit be provided at the time of supply (quantity be specified by the user) ii) One additional set of battery be provided.	Not applicable at the time of technical/physical evaluation	Not applicable at the time of technical/physical evaluation	
		Cleaning kit be provided with each of the equipment	Not applicable at the time of technical/physical evaluation	Not applicable at the time of technical/physical evaluation	
		Supplier to submit undertaking to provide spare parts for next 10 yrs. minimum from the date of supply.	Not applicable at the time of technical/physical evaluation	Not applicable at the time of technical/physical evaluation	
		Technical manual/operational manual including repair manual of PNV Monocular	Not applicable at the time of technical/physical evaluation	Not applicable at the time of technical/physical evaluation	
		Repair & maintenance training should be arranged for at least 02 persons or 02 persons on 100 equipment for 01 week. The training should be conducted at field location for 02 days.	Not applicable at the time of technical/physical evaluation	Not applicable at the time of technical/physical evaluation	

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 वैबसाईट पर विक्रेताओं/फर्मों के सुझाव प्राप्त करने हेतु 15 दिनों 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 टिप्पणियाँ।

(दिगेन्द्र) सिंह पँवार)
उप कमांडेण्ट (आधुनिकीकरण)