

Bharat Sarkar/Government of India
Griha Mantralaya/Ministry of Home Affairs
PM Division/Prov. I Desk

26, Man Singh Road, Jaisalmer House
New Delhi, Dated : August, 2012

Subject : Technical Specifications/QRs for PNV Binoculars and PNV Monoculars.

The Technical Specifications/QRs for PNV Binoculars and PNV Monoculars as per Annexure has been accepted by the Competent Authority in MHA.

2. Henceforth, all the CAPFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.

3. The trial directives for PNV Binoculars and PNV Monoculars will be circulated later after these are revised by BSF and approved by the competent authority in MHA.


(S. B. Nanda)

Under Secretary to the Govt. of India
Tel : 23381278

5/12-del-
DsG : Assam Rifles (through LOAR)/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D. — 19/09
MHA UO no. IV-21011/22/2009-Prov.I, Dated 17th August, 2012 17/09

BSF is requested to revise the trial directives for PNV Binoculars and PNV Monoculars incorporating the testing of various parameters of I.I. Tubes instead of asking for certification from the OEM in the trial directives and keeping in view the instructions issued by MHA on 13.06.2012 and forward the same to the Ministry for approval at the earliest.


(S. B. Nanda)

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Copy to :

- 11/09*
- (i) Director (Procurement), MHA.
 - (ii) PS to JS (PM)

*9/8/12
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Directorate General Border Security Force

(Prov Dte : Ord Sec)

The Sub-group of technical experts on surveillance equipment constituted by MHA vide their letter No. IV-17017/18/2001-Prov-I dated 5th Jul 2002 held its meeting at BSF HQ on 10 April 2012 and revised the QRs of PNV Binocular as requested by CRPF as under:-

QUALITATIVE REQUIREMENTS – PASSIVE NIGHT VISION BINOCULAR

S No	PARAMETER	SPECIFICATION
1.	Weight	Should not be more than 990 Gms including cells/ batteries.
2.	Image Intensifier Tube (II Tube)	All the 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 lp/mm or better. b) Signal to Noise Ratio (SNR) 22 or better at 108 μ lux.. c) Mean Time to Failure (MTTF): Minimum 10,000 operational hours. d) II Tube should be Military grade. e) It should have inbuilt AGC & BSP.
3.	Water resistance	The complete equipment shall be capable of being submersed in to water in 1 meter deep for half an hour without water leakage in-to- its interior. The binocular (PNV) should function properly.
4.	Range: (in star lit conditions without moon)	i) For human being: Detection - 400 meters Recognition- 300 meter ii) For light commercial vehicle: Detection - 500 meters Recognition - 400 meter
5.	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 Ni-MH/Li-ion cells or battery. ii) One commercially available charger with each PNV Binocular required with charging facility both AC volt and DC volt (2-in-one facility)
6.	Low battery indication	Low battery indication should be provided inside the Field of view.
7.	Magnification	4x minimum
8.	Field of View	6° minimum
9.	Inter pupillary distance (IPD)	Should be provided with adjustment.
10	Dioptre adjustment	-4.5 d to +4 dioptre or better should be provided.

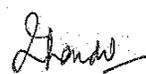
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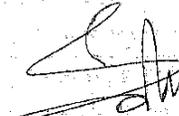




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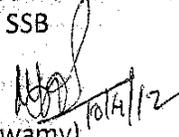
11	Operating temperature	-30°C to +55°C
12	Carrying case	Each equipment should be supplied with a suitable water proof carrying case and hard transportation case.
13	Environmental requirement	Binocular should confirm to ISS 55555 or Mil std 810-F latest for humidity, shock, vibration, rain test etc. to be supported by national/ internationally accredited Laboratory certificate.
14	<u>Miscellaneous:</u>	
	a)	Purging kit should be provided at the time of supply (Quantity to be specified by the user).
	b)	One additional set of battery be provided.
	c)	Cleaning kit should be provided with each of the equipment.
	d)	List of supporting test equipments and their rate be provided.
	e)	Supplier to submit undertaking to provide spare parts for next 10 years minimum from the date of supply.
	f)	Technical manual / operational manual including repair manual of PNV Binoculars be provided.
	g)	Repair & maintenance training should be arranged for about 10 working days to minimum 10 technicians at OEM premises & operational training to 100 operators at field locations.

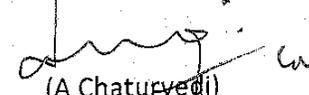

 (R S Chandel)
 SQN CDR, NSG

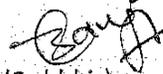

 (P S Karki)
 DYCIOA, SSB


 (P R Kumar)
 DC (SIW), BSF


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 SI (Tech), SIW, BSF

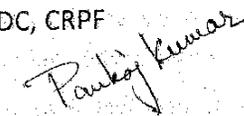

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