

No.IV-17017/43/02-Prov.I  
Ministry of Home Affairs  
Prov.I

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New Delhi the 6<sup>TH</sup> Oct.,2004

To

The DGs:Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

**Subject: Finalization of QRs/Specifications Communication and other Security Equipments.**

The Sub-Group constituted by MHA vide Memorandum No. IV.IV.17017/18/2001-Prov.I dated 5-7-2002 for laying down QRs/specifications of various items/equipments has since submitted its recommendations in respect of following communication and security equipments:

- (i) Fax Encrypter
- (ii) Frequency hopping HF/VHF sets
- (iii) Digital hand held mobile/static VHF/UHF Radio
- (iv) Wideband surveillance receiver (VHF/UHF Analog)
- (v) Wideband surveillance receiver (HF Analog)
- (vi) Wideband surveillance receiver (HF/VHF/UIIF Analog and digital)
- (vii) Light Vehicle based Direction finder ✓
- (viii) Portable Direction finder ✓
- (ix) Discone, Parabolic Dish Antenna
- (x) High altitude Parachute Penetration System(HAPPS)
- (xi) Bomb Data Centre Equipment
  - i. IED Response Vehicle
  - ii. Explosive Test Kit
  - iii. PBI Kit
- (xii) ✓ Telescopic Manipulator
- (xiii) ✓ Waterman ship Equipment
- (xiv) ✓ Deep search Mine/Metal Detector.
- (xv) ✓ Digital HF Transceiver
- (xvi) ✓ Satellite Phone (Hand Held)

2. These recommendations have been accepted by MHA. The QRs finalized by the Sub-Group and accepted by MHA in respect of the equipments are enclosed herewith

3. Henceforth, all the CPMFs should procure the above items required by them to meet their operational needs strictly as per the laid down QRs/specifications.

Yours faithfully,

*Alok*  
(Alok Mukhopadhyay )  
Under Secretary(Prov.I)

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**QUALITATIVE REQUIREMENTS (ORs)-**  
**HIGH ALTITUDE**  
**PARACHUTE PENETRATION SYSTEM (HAPPS)**

**Technical GSOR**

1. Surface area of main and reserve canopies not less than 370 Sq ft.
2. Structure of canopy – at least 7 cells.
3. Material – Nylon/Cotton reinforced Rip stop (1.1 ounce F-III)
4. Operating altitude – 3000 ft AGL to 30,000 ft MSL.
5. Deployment velocity - 0-130 KIAS.
6. Forward speed – 15 - 25 KMPH.
7. Rate of decent - full speed 14 - 18 ft/Sec.
8. 50% brakes – 8-14 ft/Sec.
9. Reliability 0.999.

**General GSOR**

1. Should be able to be configured for both static line/free falls.
2. Should use identical main and reserve canopies to reduce logistics.
3. Interchange of reserve/main canopies should be possible.
4. The material/fabric of the canopy should be nylon rip stop with cotton reinforced panels.
5. Deployment system for reserve canopy should incorporate free bag system.
6. The leg straps/chest strap should have quick ejector snap or quick release system.
7. The harness should also include Helmet which should have an inbuilt/provision for radio intercomm alongwith lead attachment socket on the outside of the helmet.

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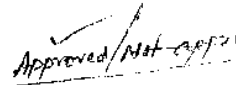
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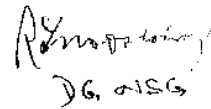
8. A 70 Ltr free fall rucksack alongwith lowering straps should also form a part of the system.

9. The accessories set should consist of the following :-

- (a) Wrist/chest mounted illuminated altimeter.
- (b) Wrist/chest mount harness mounted compass.
- (c) Freefall overall (Windbreaker).
- (d) Freefall/para trooper boots.
- (e) Glove aviator.
- (f) Goggles freefall.
- (g) Chemical light stick at the rate of 500 sticks per annum for night jumps.

  
Approved/Not approved

  
DG, AISS

