To

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

Subject: Finalisation of QRS/Specifications for Communication and other Security Equipment

The Sub-Group constituted by MHA vide Memorandum No. IV.IV.17017/18/2001-Proc.1 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 Radios
(iv) Wideband surveillance receiver (VHF/UHF Analog)
(v) Wideband surveillance receiver (HF Analog)
(vi) Wideband surveillance receiver (HF/VHF/UHF 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. PBH 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 CPMs should procure the above items required by them to meet their operational needs strictly as per the laid down QRS/specifications.

Yours faithfully,

(Alok Mukhopadhyay )

Under Secretary (Proc.1)
QUALITATIVE REQUIREMENTS (QRs)
HIGH ALTITUDE
PARACHUTE PENETRATION SYSTEM (HAPS)

Technical QRs
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
7. Rate of decent - full speed 14 - 18 ft/Sec
8. 50% brakes - 8-14 ft/Sec
9. Reliability 0.999

General QRs
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 intercoms along with speed attachment socket on the outside of the helmet.
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.