No.IV-1701##13/06-Prov.I Ministry of Home Affairs

New Delhi, Dated 03.04, 2006

To

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

Subject:

Finalization

853

of **QRs/Specifications** for Weaponry/Security

Equipments

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

- SYNTHESIZED SIGNAL GENERATORS (a)
- **(b)** SPECTRUM ANALYSER
- (c) **MODULATION METER**
- **INSULATION TESTER** (d)
- **BROAD BAND WIRELESS SOLUTION** (e)
- These recommendations have been accepted by MHA. 2. 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 Mukhopadhyay) **Under Secretary(Prov.I)**

Copy to: DD(Procurement), MHA

Copy for information to:

1. PS to JS(PM), MHA

2. Dir(Prov), MHA

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ORs / SPECIFICATIONS FOR MODULATION METER

RF Input

Frequency Range

1.5 MHz to 1 GHz

Sensitivity(Vr.m.s.)

<=10mV

AM Measurement

AM Depth

0 - 100 % (10%, 100%)

AM Accuracy

± 2% rdg

(At 1 KHz (BW 300 Hz to 3 KHz)

AM Distortion

<1% (AM <=80%)

(At 1 KHz (BW 300 Hz to 3 KHz)

AF Modulation Frequency: 25 Hz to 250 KHz

AM Noise

< 0.5%

(BW 300 Hz to 3 KHz)

FM Measurement

FM Deviation 0 to 100 KHz

FM Accuracy <= 2 % rdg

FM Distortion <= 2 % rdg

AF Modulation Frequency

BW 25Hz to 50 KHz

Residual FM : <=20 Hz/ 100 Hz

De-emphasis : 50 μ S, 75 μ S, 750 μ S

Power

: $220 \text{ V} \pm 10 \% 50 \text{ Hz } 6 \text{ W}$

Size

< 320x280x100 mm

√Weight: <6 Kg

Warranty

: 1 Year or, more.

Accessories:- Mains Cable, Measuring Probes, Instruction Manual.

(Kamalesh Deka)

Inspector General(Comn), BSF

(Brig. M.K.Gupta)

Dy Inspector General (Comn), NSG

(B.B. Lal)

Deputy Director(Tech), I.B.

(S.K.Jindal)

Scientist 'F' D.R.D.O.

(K.C.Ágnihotri)

Deputy Director(Eqpt), DCPW

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