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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QRs / SPECIFICATIONS FOR SPECTRUM ANALYZER

Frequency

Freq. Range

9 KHz - 3 GHz

Resolution

1 Hz

Accuracy

1 PPM or better

Freq. Span

1 KHz to 3 GHz, 0 Hz

Spectral Purity

Sweep Time

Span >=1 KHz

100mS to 1000Sec

Bend Width

Resection BW (-3dB)

200Hz to 1 MHz

Vaco BW

10 Hz to 1 MHz

Amplitude Section

Reference Level

-110 dBm to + 36 dBm

Accuracy

 $\pm 2 dB$

Average Noise

<= -110 dBm, typical –120 dBm, RBW – 300 Hz,

VBW 10 Hz, Input Attenuation 0 dB

Spurious Response

<= - 60 dBc

Display Units

dBm, dBµV, dBmV

RF loput Attenuation Rauge

0 dB to 70 dB

Mm

Ri aput connector

N Female

Input Impedance

50 ohm

VSWR

< 1.5 (10 MHz to 3 GHz), Input Attenuation >= 20 dB

Max. Input Level

+ 33 dBm with 30 dB input attenuation

GEMERAL

Display

5.4" active TFT colour display.

Display Resolution

320 x240 pixels

Line Voltage

100 V - 240 V AC, 50-60 Hz, Auto ranging

Power Consumption

<35 VA

Contd..2.

Parating Temerature

age Temperature

Relative Humdity

162-13

Di tensions

% ght

O er Requirement :-

+5 °C to -45°C

-20°C to +70°C

95% at + 10°C

219 x 147 x 350mm

< 7.4 kg

Required accessories including Power Cord, Measuring Proves, Operating & Service Manual and spare parts for 5 years trouble free operation.

2 Years Warran'y from the date of receipt of goods in good condition.

(Kamalesh Deka)

has beeter General (Comn), BSF

(Brig. N. K. Gupta)

Dy.Inspector General (Comn), NSG

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eputy Director(Tech), I.B.

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