

No.IV-17017/13/06-Prov.I  
Ministry of Home Affairs  
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New Delhi, Dated 15.05.2006

To

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

Subject: Finalization of QRs/Specifications for Weaponry/Security  
Equipments

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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 item:-

- (a) REPEATER FOR VIDEO BUG
- (b) REPEATER FOR DIGITAL AUDIO MINIATURE BUGS
- (c) SPOTTOSCOPE
- (d) WIRELESS CAMERA COLOUR INFRARED NIGHT VISION
- (e) LIGHT WEIGHT PORTABLE VIDEO SVL SYSTEM.

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

3. Henceforth, all the CPMFs should procure the above item 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)

S/C

Copy to : DD(Procurement), MHA

Copy for information to:

1. PS to JS(PM), MHA
2. Dir(Prov), MHA

## QR : REPEATER FOR VIDEO BUGS

Function: 1. An equipment capable of re-transmitting the signal transmitted by a video bug at a different frequency and higher power output to enhance the working range.

### 2. Specifications

(a) Repeater: It should consist of a built in receiver and a transmitter. Receiver accepts the video/audio signals radiated by video bug and the transmitter retransmit the same so that it can be received by the repeater receiver placed at ops room.

- |       |                                 |   |  |
|-------|---------------------------------|---|--|
| (i)   | Frequency Range                 | - | 0.3GHz to 4 GHz  |
| (ii)  | RF output                       | - | Minimum 2 watts.   |
| (iii) | Transmission range              | - | Min 1 KM   |
| (iv)  | Power supply                    | - | (i) AC & DC both<br>(ii) Rechargeable Li-ion or equivalent battery |
| (v)   | Battery discharge time          | - | Minimum 4 hours while in use.                                      |
| (vi)  | Weight with bty and accessories | - | Less than 10 Kgs. //   |
| (vii) | Operating Temperature           | - | 0 <sup>o</sup> C to + 50 <sup>o</sup> C                            |

(b) Repeater Receiver: To accept video/audio signals from repeater transmitter.

- |       |                        |   |  |
|-------|------------------------|---|--|
| (i)   | Frequency Band         | - | 0.3 GHz to 4 GHz.  |
| (ii)  | Power supply           | - | (i) AC & DC both<br>(ii) Rechargeable Li-ion or equivalent battery |
| (iii) | Battery discharge time | - | Minimum 4 hours.   |
| (iv)  | Operating Temperature  | - | 0 <sup>o</sup> C to +50 <sup>o</sup> C                             |

: 2 :

- (v) Antenna - (i) Rod/whip omni directional.  
(ii) Directional antenna like yagi or equivalent.
- (vi) Colour LCD TFT monitor minimum 10" in size.

3. **Scale of Equipments**

- (a) A compatible receiver with each repeater.
- (b) 2 sets of additional bty with repeater and receiver.
- (c) A suitable bty charger with each repeater and receiver.
- (d) Carrying case for each equipment.

4. **Miscellaneous aspects**

- (a) **Literature.** Operating and Technical literature for each discrete component of system, in English.
- (b) **Demonstration and Training.** Demonstration of the repeater with one set of equipment to be given in Delhi on no cost no commitment basis during evaluation. In situ training of users for one week on operation, maintenance, fault finding and user level repairs.
- (c) **Repair/ Maint Cover.** Repair cover up to <sup>10</sup> 5 yrs after eqpt has been provided to NSG with or without AMC.
- (d) **Warranty.** Comprehensive warranty for 1 year.