

No.IV-17017/13/06-Prov.I
Ministry of Home Affairs

New Delhi, Dated 27.03.2006

To

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

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

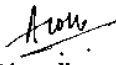
The Sub-Group constituted by MHA vide Office Memorandum No. IV.17017/18/2001-Prov.I dated 5-7-2002 for laying down QRs/specifications of various items/equipments has since submitted QRs in respect of the following items:-

- (a)✓ Wide Band Video UHF Link
- (b)✓ Laser Listening Device
- (c)✓ Video Bugs in Spectacle
- (d)✓ Video Bug in Tie Pin
- (e)✓ Digital Audio Miniature Bugs
- (f)✓ Cell Phone Camera
- (g)✓ Video Bug in Button

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

OK DIGITAL AUDIO MINIATURE BUGS

- i. Should be a miniature digital audio transmitter with a built in microphone and antenna.

2. **Specifications**

(i) **Transmitter**

- | | | | |
|-----|------------------------------|---|--|
| (a) | Pick up Range | - | Minimum 10 feet |
| (b) | Transmission range | - | Minimum 300 meter |
| (c) | Frequency Range | - | 500 MHz to 1 GHz |
| (d) | Power output | - | 100 milli watt or more. |
| (e) | Power supply | - | Rechargeable Li-ion or equivalent battery. |
| (f) | Battery discharge time- | | Min 8 hours. |
| (g) | Size | - | Less than 3 x 2 x 1.75 inches. |
| (h) | Operating Temperature- | | 0 ⁰ C to +40 ⁰ C |
| (j) | Electromagnetic Interference | - | EMI/EMC compliant for use at airport. |

(ii) **Receiver**

- | | | | |
|-----|------------------------|---|--|
| (a) | Frequency Range | - | 500 MHz to 1 GHz. |
| (b) | RF sensitivity | - | Better than 94 dBm. |
| (c) | Power supply | - | Rechargeable Li-ion or equivalent battery. |
| (d) | Operating Temperature- | | 0 ⁰ C to +50 ⁰ C |
| (e) | Antenna | - | Omni directional whip antenna with length less than 15 inches. |

(iii) **Digital voice recorder.**

- (a) PC compatibility - USB or equivalent (Windows XP)
- (b) Memory capacity - Min 164 Mb.
- (c) Down load speed - Min 1x.
- (d) Folder and file options- Minimum of four folders.
- (e) Power supply - Rechargeable Li-ion or equivalent battery with option to work on 220 -230 V, 50Hz AC also.
- (f) LCD display, Line IN/OUT jack, Head phone jack.
- (g) Play back with built in speaker.

3. **Scale of Equipments**

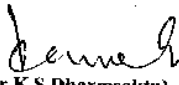
- (i) One digital receiver per transmitter (bug)
- (ii) A digital voice recorder per 4 transmitters (bugs)
- (iii) 2 sets of additional battery with each equipment.
- (iv) A suitable battery charger with each equipment.
- (v) Carrying case for each equipment.

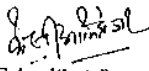
4. **Miscellaneous aspects**

- (i) **Literature.** Operating and Technical literature for each discrete component of system, in English language.
- (ii) **Demonstration and Training.** Demonstration of the complete system 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.

.....10/-

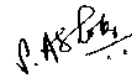
- (iii) Repair/ Maint Cover. Repair cover up to 10 yrs after eqpt has been provided to ^{user organization} ✓ with or without AMC.
- (iv) Warranty. Comprehensive warranty for 1 year.

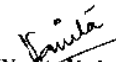

(Dr K S Dharmasakti)
Dy Director, DRDO


(K C Agnithotri)
Dy Director, DCPW

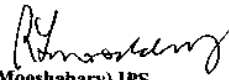

(Sabu A Joseph)
Commandant (Ord), BSF


(Col M N Bhurke)
Gp Comdr, TSG, NSG


(S Ashok)
Asstt Director, DGQA


(Vinita Yadav)
SSO (E), BPR&D

Approved/Not-approved


(R S Mooshahary) IPS
Director General, BSF 30/10/06