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No.IV-17017/48/02-Prov.I
Ministry of Home Affairs
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New Delhi the 1st June,2004

To

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

Subject: Finalization of QRs/Specifications Communication Equipments.

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

- 1.. High Power Communication Jammer
2. Sweep/Barrage Jammer
3. Portable Jammer for Bomb disposal

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 CPMFs should procure the above items required by them to meet their operational needs strictly as per the laid down QRs/specifications.

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Yours faithfully,

Alok
(Alok Mukhopadhyay)
Under Secretary(Prov.I)

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QRs/TECHNICAL SPECIFICATIONS OF SWEEP / BARRAGE JAMMER

1	FREQUENCY RANGE	25 to 1000 MHz
	I.	In 4 bands 1. 25-100 MHz 2. 100 - 250 MHz 3. 250 - 500 MHz 4. 500 - 1000 MHz
		Optional 25 to 500 MHz In Two Bands 1. 25 - 100 MHz 2. 100 - 500 MHz
	II. Frequency Coverage Jamming	All Bands simultaneously. Wide Band jamming is required for entire frequency band.
2	OUTPUT POWER	100 Watt minimum per band.
3	TOTAL POWER	100 Watt X Number of Bands.
4	MODE	Sweep & Wide band Barrage Jamming
5	MODULATION	High Speed stepped Sweep with white noise to jam all modes of transmission.
6	TYPE OF DEVICE TO BE JAMMED	All analog & digital signals.
7	STEPPED SWEEP RATE	2.5 KHz, 5 KHz, 10 KHz, 20 KHz or the system should be capable to jam all frequencies from 25-1000 MHz. The technique choice is left to the supplier.
8	POWER SUPPLY	DC : 24 Volt DC (2 x 12 Volt Battery) 100 AH with alternator option coupled to vehicle engine shaft. The system should be capable of working 4-5 hours at a stretch on battery.
9	AC SOURCE	230 V, 50 Hz single phase for static operation.
10	CHARGING FACILITIES FOR BATTERIES	Should be available within the vehicle through DC to DC convertor or alternator.
11	PLATFORM (EQUIPMENT SHOULD BE SUPPLIED FITTED ON VEHICLE)	(i) Vehicle mounted. The vehicle should be 4 wheel drive and airconditioned. The vehicle should be commonly used/manufactured in India have following specifications: Diesel run Engine, 1940 CC, Minimum 4 Cylinder Fuel tank - Minimum 60 Ltr. Light Vehicle Ground clearance - 155 mm or better After installation of equipment, the vehicle should have sufficient space for operating staff. Two seats with folding arrangement should be provided in the rear portion of vehicle for use by operating staff. (ii) The system should be well integrated inside the vehicle.

J. Hand